

Rotomoulding Material Solutions

Asia Product Catalogue

Image courtesy of Denamorado



Experts in Rotomoulding Materials

One of our key objectives is to bring fresh ideas and exciting new materials to the market and expand the range of products that can be rotomoulded.

We have strong technical roots and like to work in close collaboration with our customers. We also have close partnerships with our suppliers, some of whom are the world's largest petrochemical companies.

We offer one of the widest raw material selections and have developed several of our key grades under our 'Designed for Roto®' concept.

In March 2019, PTT Global Chemical took a 49% share in the holding company for all the Matrix Polymers operating subsidiaries, Revolve Group Ltd (RGL). PTT Group, as Thailand's largest company, has a US\$72 billion sales turnover and is primarily an oil and gas firm. This investment is part of a major 5-year strategic growth plan for the company and supports the company's vision 'to be the global experts in rotomoulding materials through innovation and local partnerships'.



Why Choose Matrix Polymers



Global footprint that delivers world-class raw materials to the rotational moulding industry.



Our team of industry experts, with a wide range of skills and knowledge, collaborate with moulders from ideation concept to creation helping our partners identify new possibilities that are aligned to market trends and insights.



Experienced team of people in all aspects of rotational moulding, from polymer chemistry to polymer design, compounding to grinding, color matching to rotomoulding and logistics to customer services.



Dedicated Technical Services Support team who offer colour matching and polymer on-site technical assistance and trouble-shooting and analytical testing of products.



The largest supplier of colored powder to the rotational moulding industry in Australia and New Zealand.



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01

Polyethylene

- General Purpose Grades
- Granules
- Tank Grades
- Super-Linear® Grades
- Industrial Grades
- Flexible Grades
- High Performance Grades

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Polyethylene






The main material of choice for the rotomoulding market and suitable for a wide range of applications from toys to tanks. Our selection of general purpose, tank and high performance polyethylene grades have been designed specifically with rotomoulding in mind, ensuring a wide processing window and the highest quality finish for your design.

Image courtesy of Sebastian Schleicher




Designed for Roto®

Designed for Roto® is a trademark and R&D programme of Matrix Polymers, conducted in partnership with petrochemical companies. It aims to develop polymers for use specifically for rotomoulding applications such as furniture, water tanks, chemical tanks and gardening. Our Designed for Roto® products are sold under our own brand and are therefore available exclusively at Matrix Polymers'.

General Purpose Grades →

Grade	MFI	Density	General Properties
Hellcat 1010  	10.0	0.935	Easy to mould in intricate areas, Pin-hole free mouldings, superb surface detail
Revolve® 4506 	5.0	0.936	Good mouldability and good impact properties
Revolve® 4409U 	4.0	0.939	Good flow characteristics and mouldability
Revolve® 4403U 	4.0	0.933	Good mouldability, excellent impact strength and a wide processing window

Granules Grades →

Grade	MFI	Density	General Properties
Revolve® 4409U 	4.0	0.939	Good flow characteristics and mouldability
Revolve® 6105U 	10.0	0.935	Good mouldability, excellent impact strength and a wide processing window
Revolve® 4403U 	4.0	0.933	Good mouldability, excellent impact strength and a wide processing window






Tank Grades →

Grade	MFI	Density	General Properties
Revolve® 6329U  	3.2	0.939	Good mouldability, excellent impact strength, high stiffness and hardness
Revolve® M-950 	3.4	0.939	High stiffness and hardness, good mouldability and excellent impact strength
Revolve® 6409U  	4.0	0.939	Good stiffness, good mouldability and excellent impact strength



Super-Linear® Grades →

Grade	MFI	Density	General Properties
Revolve® M-6343 	3.4	0.943	Excellent stiffness and good impact strength.
SL-460 	4.6	0.953	Excellent impact properties, good mouldability, high stiffness and hardness and high scratch resistance.

Industrial Grades →

Grade	MFI	Density	General Properties
Revolve® 6405U  	4.0	0.935	Good mouldability, excellent impact strength and excellent ESCR properties
N-575 	5.2	0.936	Good mouldability and excellent impact strength
Revolve® 4202U 	2.0	0.920	Good outdoor weatherability and excellent toughness
R-tuff M-920 	4.2	0.933	Excellent impact strength and superior mouldability

Flexible Grades →

Grade	MFI	Density	General Properties
Revolve® 4202U 	2.0	0.920	Good outdoor weatherability and excellent toughness
Revolve N-228 	10.0	0.902	Good flexibility
Revolve® M-687 	30.0	0.882	High flexibility

High Performance Grades →

Grade	MFI	Density	General Properties
Revolve® 6402U 	4.0	0.932	Good mouldability and excellent impact strength



Image courtesy of Sebastian Schleicher

General Purpose Grades

Used in thousands of products, these are our most popular grades. Suitable for use in many applications including litter bins, automotive parts, small tanks, flower pots/planters and furniture.



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General Purpose Grades



Hellcat 1010

MFI: 10.0 Density: 0.935

A high flow material which achieves superb surface definition, bright colouring and reduces processing time.

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Revolve® 4506

MFI: 5.0 Density: 0.936

A polyethylene, butene copolymer grade. Designed for applications such as storage containers and small tanks.

[Download Datasheet](#)

Revolve® 4409U

MFI: 4.0 Density: 0.939

A linear low density butene polyethylene grade. The grade has a wide processing window, with outstanding physical properties and consistent long-term performance.

[Download Datasheet](#)

Revolve® 4403U

MFI: 4.0 Density: 0.933

A butene polyethylene grade with an excellent balance of properties such as impact strength, a wide processing window and excellent mouldability.

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 Designed for Roto®

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Image courtesy of Sebastian Schleicher

Granules

A wide selection of polyethylene rotomoulding grades available in granule or pellet form. Suitable for moulders who wish to grind, extrude or blend colours independently.

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Granules



Revolve® 4409U

MFI: 4.0 Density: 0.939

A linear low density butene polyethylene grade. The grade has a wide processing window, with outstanding physical properties and consistent long-term performance.

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Revolve® 6105U

MFI: 10.0 Density: 0.935

A high flow material which achieves superb surface definition, bright colouring and reduces processing time.

[Download Datasheet](#)

Revolve® 4403U

MFI: 4.0 Density: 0.933

A butene polyethylene grade with an excellent balance of properties such as impact strength, a wide processing window and excellent mouldability.

[Download Datasheet](#)

We have one of the industry's largest, most knowledgeable and experienced technical teams

For more information about our products and services contact our team

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Tank Grades

We have the most comprehensive selection of tank grades to meet the technical and commercial challenges our industry faces. Suitable for use across a wide range of application and industries. From automotive diesel tanks, underground, bulk chemical and oil storage through to super large water tanks, our grades will meet your needs.



Super-Linear® Grades

Matrix Polymers was the first company to develop and market Super-Linear® materials in Europe. Offering stiffness, rigidity and scratch resistance with very good impact strength and toughness. Making them highly suitable for manufacturing kayaks, canoes and sailing boats. They can also be used in any component requiring lightweight, stiffness and durability.



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Tank Grades



Revolve® 6329U ▲ ♻️

MFI: 3.2 Density: 0.939

A linear low density polyethylene hexane grade, which has an excellent balance of properties such as impact strength, stiffness and flow characteristics.

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Revolve® M-950 ▲ ♻️

MFI: 3.4 Density: 0.939

A polyethylene hexene grade which has an excellent balance of properties such as impact strength, stiffness and flow characteristics.

[Download Datasheet](#)

Revolve® 6409U ♻️

MFI: 4.0 Density: 0.939

A hexene grade with high impact and good ESCR. The grade is designed to provide a wide processing window, excellent mouldability and stiffness.

[Download Datasheet](#)

Super-Linear® Grades



Revolve® M-6343 ♻️

MFI: 3.4 Density: 0.943

A HDPE grade designed to provide good combination of stiffness, impact and mouldability.

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SL-460 ♻️

MFI: 4.6 Density: 0.953

A Super-Linear® HDPE providing a high level of stiffness and high level of mouldability.

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Image courtesy of PikPict

Industrial Grades

These grades have outstanding physical characteristics such as toughness and ESCR. They are used in demanding applications such as large chemical storage containers, off-shore flotation buoys and road crash barriers.



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Industrial Grades



Revolve® 6405U ▲

MFI: 4.0 Density: 0.935

A hexene grade with high chemical resistance. Designed to provide an excellent balance of properties such as impact strength, ESCR and flow characteristics.

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N-575

MFI: 5.2 Density: 0.936

A hexene grade with a wide operating window and good mouldability.

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Revolve® 4202U

MFI: 2.0 Density: 0.920

A flexible plastomer powder with good mouldability and impact strength.

[Download Datasheet](#)

R-tuff M-920

MFI: 4.2 Density: 0.933

A hexene grade with enhanced impact resistance, superior mouldability and excellent ESCR.

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Flexible Grades

We supply a range of plastomer and EVA based powders offering low temperature impact and good strength and flexibility. These materials are widely used for traffic barriers, bollards and marine applications such as fenders where elastic recovery after impact is essential.



Flexible Grades



Revolve® 4202U

MFI: 2.0 Density: 0.920

A flexible plastomer powder with good mouldability.

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Revolve N-228

MFI: 10.0 Density: 0.902

A rotational moulding metallocene plastomer grade designed to provide high flexibility and good recovery.

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Revolve® M-687

MFI: 30.0 Density: 0.882

A very highly flexible plastomer powder grade designed to provide a very high degree of flexibility and good elastic recovery without compromising flow characteristics.

[Download Datasheet](#)

High Performance Grades

A range of rotomoulding grades designed for the most demanding of applications.



High Performance Grades



Revolve® 6402U

MFI: 4.0 Density: 0.932

A hexene low density polyethylene designed to provide excellent impact properties, toughness, a wide operating window and long term resistance to load.

[Download Datasheet](#)

We have one of the industry's largest, most knowledgeable and experienced technical teams

For more information about our products and services contact our team

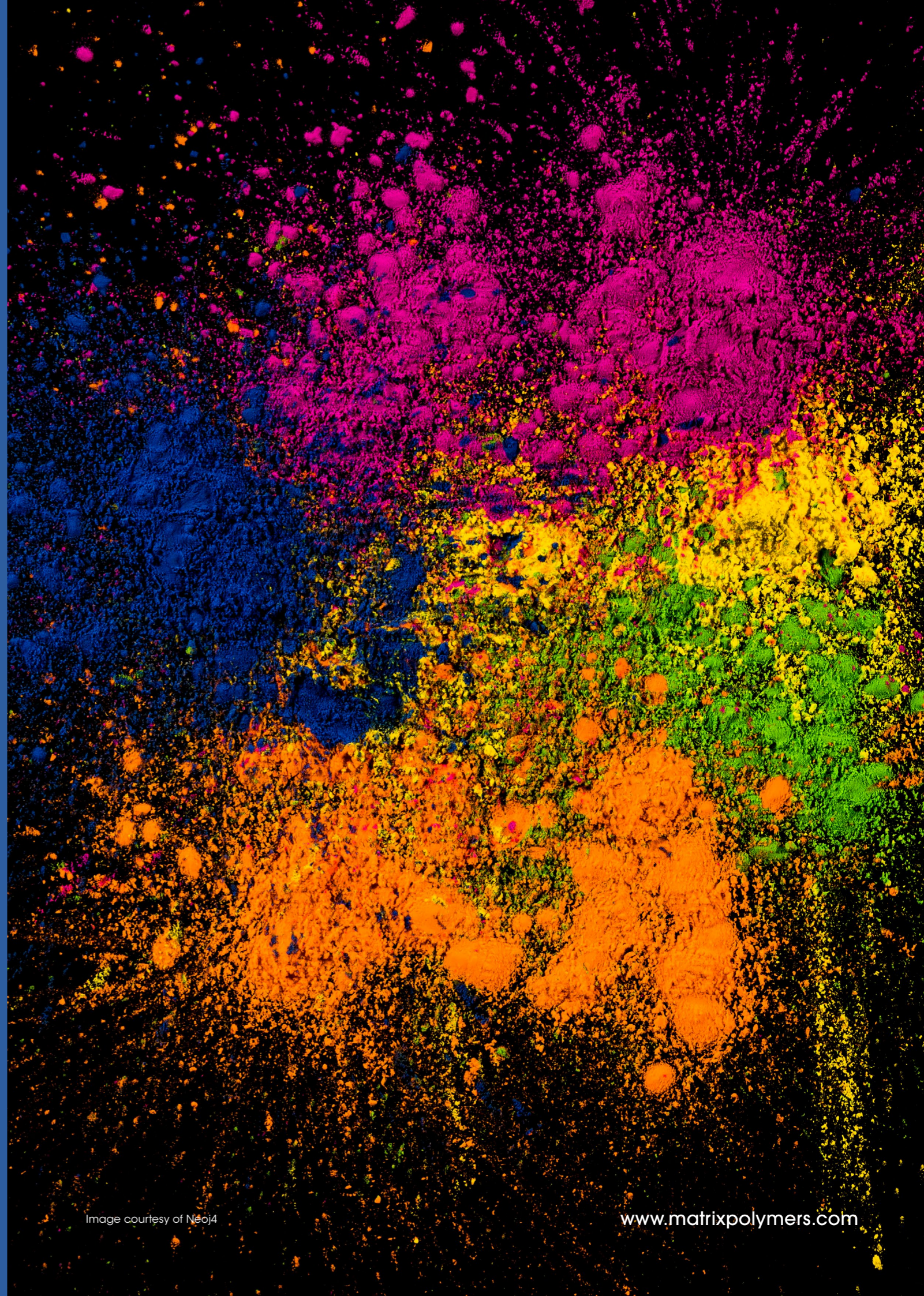
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02

Speciality Polyethylene

- Crosslink Grades
- Rotolining Grades
- Conductive Grades
- Polycarbonate Grades
- Flame Retardant Grades
- Foam Grades
- Antistatic Grades
- Antibacterial Grades



Speciality Polyethylene

From boats and buoys to fuel pipes and tanks, these grades have been designed by Matrix Polymers to provide optimal performance for your intended application. Our speciality portfolio is constantly evolving with new technology and material developments.

Image courtesy of Bregon Associates



Crosslink Grades →

Grade	MFI	Density	General Properties
Revolve® XL400 Black	● N/A	0.955	Outstanding impact and ESCR properties. TÜV approved
Revolve® XL400 Natural	● N/A	0.945	Outstanding impact and ESCR properties. TÜV approved
Revolve® XL700	● N/A	0.950	High stiffness and hardness, fast processing, excellent impact strength, reduced odour, superb chemical resistance



Rotolining Grades →

Grade	MFI	Density	General Properties
Revolve® N-211	● 5.0	0.921	Very high chemical resistance and adhesion to metal
Revolve® 4202 Rotoline	● 2.0	0.920	Very high chemical resistance and adhesion to metal



Conductive Grades →

Grade	MFI	Density	General Properties
Revolve® XL400 Conductive	● N/A	0.950	Outstanding impact and ESCR properties
Revolve® M-950 Conductive	● 3.4	0.939	High stiffness and toughness, good mouldability and excellent impact strength
Revolve® PP60 R-TUFF Conductive	● 25.0	1.100	High temperature resistance and good impact



Polycarbonate Grades →

Grade	MFI	Density	General Properties
Revolve® ReClear PC15	● 38.0	N/A	Transparent, stiffness, UL94 V0 at 3mm
XP9003 -PC	● 23.0	1.2	Transparent, stiffness, UL94 V0 at 3mm



Flame Retardant Grades →

Grade	MFI	Density	General Properties
Revolve® PP45 FR	● 25.0	1.100	UL94 V-0 Flame retardant rated at 3 mm



Foam Grades →

Grade	MFI	Density	General Properties
Revolve® M-404	● 4.0	0.235	A rigid foam that is easy to process and expands up to 4 times. A closed cell structure
Revolve® M-408	● 4.0	0.117	A rigid foam that is easy to process and expands up to 8 times. A closed cell structure
Revolve® M-56	● 3.0	0.310	Ultra rigid foam, easy to process, expand to 4 times, closed cell structure
Revolve® M-532	● 5.0	0.230	General purpose foam grade



AntiStatic Grades →

Grade	MFI	Density	General Properties
Revolve® M-711	● 7.0	0.935	Easy processing grade with antistatic additive



Antibacterial Grades →

Grade	MFI	Density	General Properties
Revolve® N-272	● 7.0	0.935	Easy processing grade effective against MRSA

Crosslink Grades

Crosslink polyethylene material has outstanding impact and ESCR properties, very high flow and stiffness. This material is TÜV approved. Typical applications for crosslink include diesel fuel tanks and any application requiring outstanding physical properties.



Rotolining Grades

This material can be used for permanent lining of steel containers to enhance chemical resistance.



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Crosslink Grades



Revolve® XL400 Black

MFI: N/A Density: 0.955

A Cross link polyethylene grade which combines outstanding performance with all the benefits of a high MFI resin.

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Revolve® XL400 Natural

MFI: N/A Density: 0.945

A Cross-link polyethylene grade which combines outstanding performance with all the benefits of a high MFI resin.

[Download Datasheet](#)

Revolve® XL700

MFI: N/A Density: 0.950

A Cross-link polyethylene grade which combines outstanding performance with all the benefits of a high MFI resin.

[Download Datasheet](#)

Rotolining Grades



Revolve® N-211

MFI: 5.0 Density: 0.921

A modified octene polyethylene grade which can be bonded to metal to enhance chemical resistance.

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Revolve® 4202

MFI: 2.0 Density: 0.920

A modified LLDPE grade which can be bonded to metal to enhance chemical resistance.

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Image courtesy of Sebastian Schleicher

Conductive Grades

Conductive materials based on PE, Crosslinkable PE and PP stop the build up of static charge and prevent sparks which may cause an explosion. These materials are used for containers and conveyors of dust and powder where static explosions are a significant risk. They are also used in mining and ammunitions applications. There is a food approved grade, a crosslinkable grade and a polypropylene based version available.



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Conductive Grades



Revolve® XL400 Conductive



MFI: N/A Density: 0.950

A Cross-link polyethylene grade which combines outstanding performance with all the benefits of a cross-linkable resin such as a wide processing window, excellent impact strength, outstanding chemical resistance and long term properties.

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Revolve® M-950 Conductive



MFI: 3.4 Density: 0.939

A polyethylene grade designed to provide conductivity and still maintain a good processing window, good mouldability and excellent impact strength and stiffness.

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Revolve® PP60 R-TUFF Conductive



MFI: 25.0 Density: 1.100

A polypropylene grade designed to provide conductivity and maintain all properties related to polypropylene such as stiffness, high temperature and chemical resistance.

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Polycarbonate Grades

A polycarbonate powder designed to provide good mouldability without sacrificing its inherent properties such as transparency and rigidity.



Image courtesy of Photo (1)

Polycarbonate Grades



Revolve® ReClear PC15



MFI: 38.0 Density: N/A

A polycarbonate powder designed to provide good mouldability without sacrificing its inherent properties such as transparency and rigidity.

[Download Datasheet](#)

XP9003 -PC



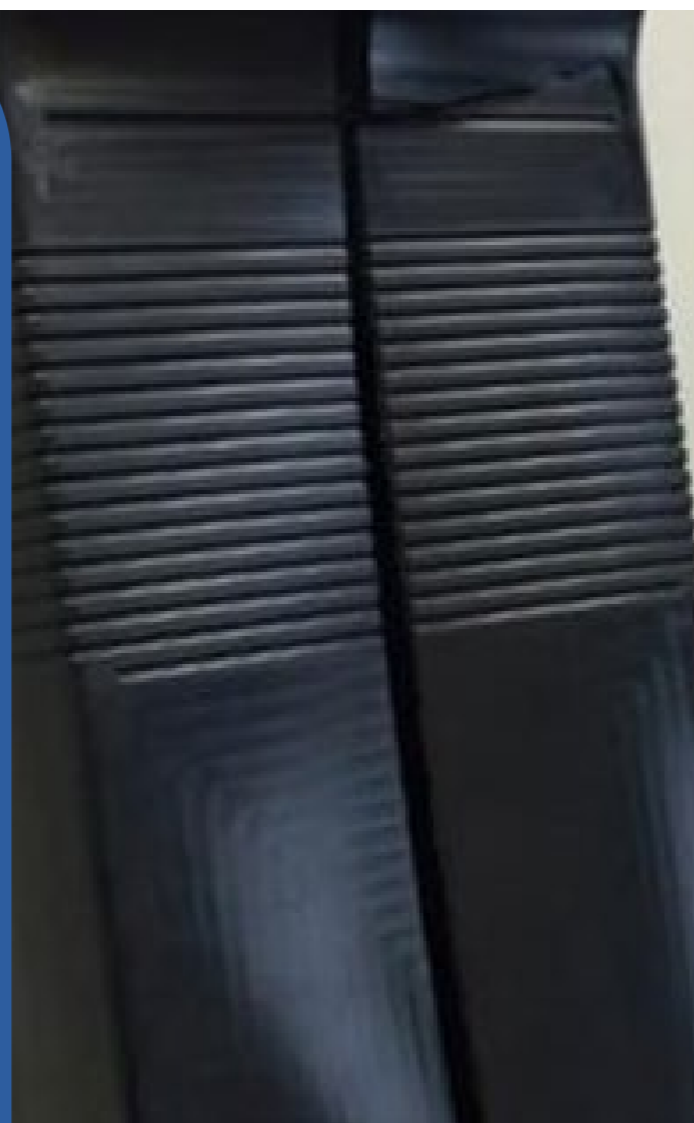
MFI: 25.0 Density: 1.200

A polycarbonate powder designed to provide good mouldability without sacrificing its inherent properties such as transparency and rigidity.

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Flame Retardant Grades

Our flame retardant materials are based on PE and PP are compliant to UL94. Typical applications include litter bins, products for the transport industry and indoor products requiring flame retardancy.



Flame Retardant Grades



Revolve® PP45 FR



MFI: 25.0 Density: 1.100

A polypropylene grade designed to provide exceptional mouldability without compromising rigidity and strength.

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Image courtesy of Sebastian Schleicher

Foam Grades

Our Technical Services Team have developed several different foam grades for a wide range of single or multi-layered applications. These include soft foam for increased flexibility, non-stick foam and higher expansion foam. They can also be used for applications requiring thermal insulation and acoustic dampening.



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Foam Grades



Revolve® M-404 ●

MFI: 4.0 Density: 0.235

A fully formulated rotational moulding foam grade designed to provide a closed cell structure with 4 x expansion.

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Revolve® M-408 ●

MFI: 4.0 Density: 0.117

A fully formulated rotational moulding foam grade designed to provide a closed cell structure with 8 x expansion.

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Revolve® M-56 ●

MFI: 3.0 Density: 0.310

An advanced foam grade designed to provide a closed-cell structure. An ideal grade for rigidity, thermal and sound insulation applications.

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Revolve® M-532 ●

MFI: 5.0 Density: 0.230

A foam grade designed to provide a closed-cell structure. An ideal grade for rigidity, thermal, sound insulation and any multi-layer applications.

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Antistatic Grades

A fast cycling PE with a wide processing window, good mouldability and superb natural colour. The material has been modified to include antistatic properties and is fully UV stabilised.

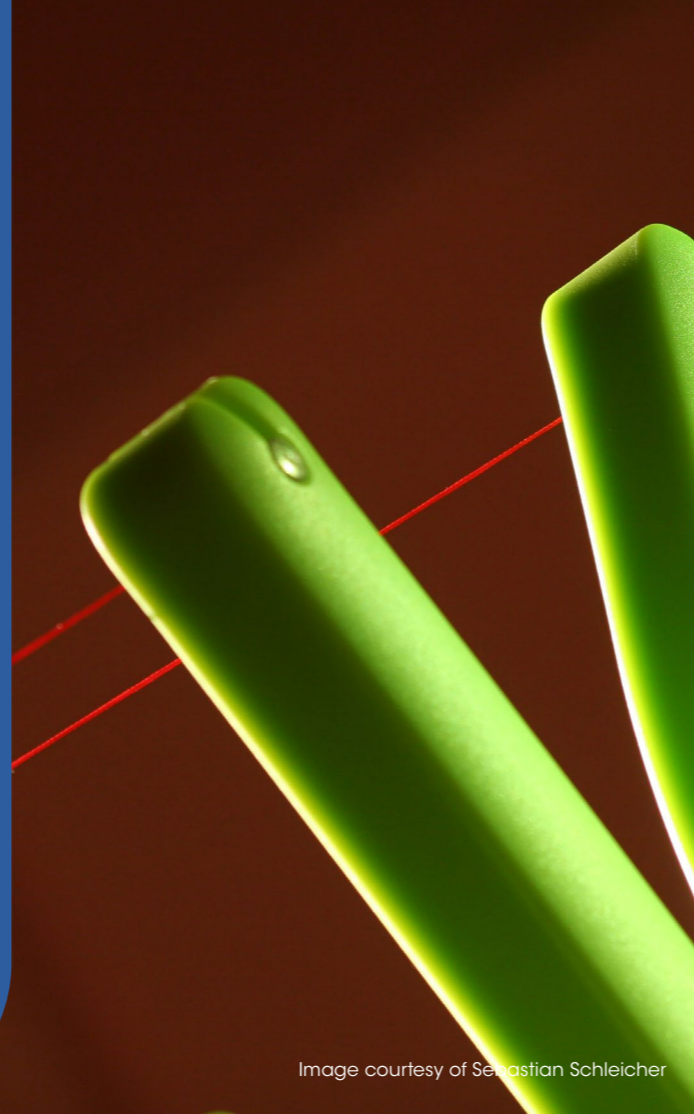


Image courtesy of Sebastian Schleicher

Antistatic Grades



Revolve® M-711

MFI: 7.0 Density: 0.935

A polyethylene grade designed to provide antistatic properties and still maintain a wide processing window, excellent mouldability and good impact strength.

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Antibacterial Grades

Antibacterial powders are effective against further growth of E-Coli, Staphylococcus Aureus, Salmonella and MRSA which make the product suitable for hospital and sanitary applications.



Image courtesy of Sebastian Schleicher

Antibacterial Grades



Revolve® N-272

MFI: 7.0 Density: 0.935

A polyethylene grade designed to provide antibacterial protection against MRSA without compromising mouldability and physical properties

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03

Engineering Polymers

- Polypropylene Grades
- Polyamide Grades
- Thermoplastic Elastomer Grades
- PVDF

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Image courtesy of Adam Podrez

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Engineering Polymers

Designed predominantly for the automotive sector, our engineering grades provide the ultimate material performance for the most demanding of applications. Polypropylene, Polyamide and Polycarbonate based grades are all available for your next high specification project.








Image courtesy of ThisisEngineering RAEng


Polypropylene Grades →

Grade	MFI	Density	General Properties
Revolve® R-TUFF PP60 	25.0	0.905	Good impact properties, good mouldability and high temperature resistance
Revolve® PP45 	25.0	1.050	Very easy to mould a wide operating window
Revolve® PP46 	15.0	1.050	Easy to mould with good stiffness

Polyamide Grades →

Grade	MFI	Density	General Properties
Rilsan MB3000 	N/A	1.100	Flame retardant UL94 V0 rated at 3 mm
Revolve® PA12 	N/A		PA12 for 2 layer moulding
Revolve® PA11 	N/A	1.050	Easy to mould, printable, 100% renewably sourced
Revolve® PA HIU 	N/A	1.110	High stiffness and hardness, good mouldability, good impact strength, low permeability to hydrocarbons, suitable for constant use up to 150 degrees C
Revolve® PA RDN 	N/A	1.142	High stiffness and hardness, good mouldability, low permeability to hydrocarbons, suitable for use up to 150 degrees C

Thermoplastic Elastomer →

Grade	MFI	Density	General Properties
Revolve® PB33 	N/A	1.01	Excellent flexibility, high resilience, excellent resistance to creep, excellent resistance to fatigue

PVDF →

Grade	MFI	Density	General Properties
Revolve® PVDF 2850 	N/A	1.71	Easy moulding, very high temperature resistance, flame and chemical resistance

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Image courtesy of Sebastian Schleicher

Polypropylene Grades

Polypropylene materials benefit from being stiff, hard and are able to cope with higher temperatures than polyethylene. In rotomoulding however, polypropylene has always suffered from poor impact performance especially at lower temperatures. The technical team at Matrix Polymers have designed a PP material to overcome this.



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Revolve® R-TUFF PP60

MFI: 25 Density: 0.905

A polypropylene grade designed to provide enhanced cold impact properties without compromising stiffness and high temperature resistance.

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Revolve® PP45

MFI: 25 Density: 1.050

A polypropylene grade designed to provide exceptional mouldability without compromising rigidity and strength.

[Download Datasheet](#)

Revolve® PP46

MFI: 15 Density: 1.050

A polypropylene grade designed to provide exceptional mouldability without compromising rigidity and strength.

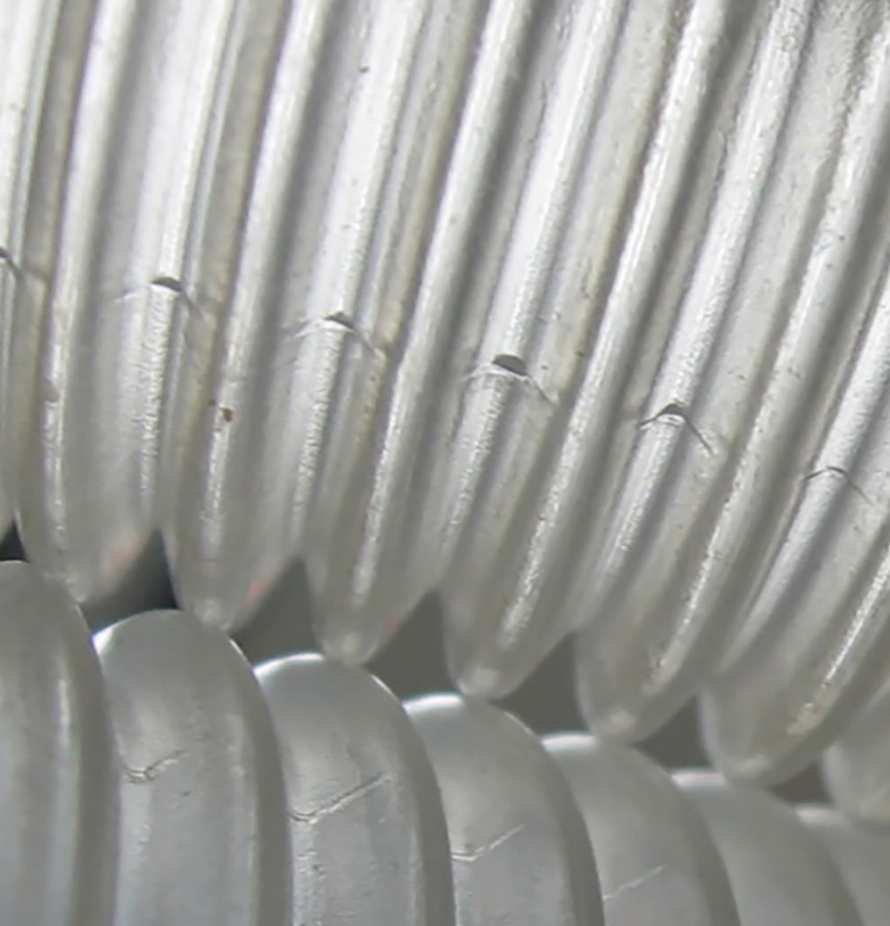
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Polyamide Grades

Exhibiting high temperature and electrical resistances, polyamides (nylons) are considered as high performance plastics and are widely used in automotive & transportation markets, consumer goods and electrical and electronics applications among others. Polyamides are an ideal choice in high-end engineering applications.



Rilsan MB3000

MFI: N/A Density: 1.100

A flame retardant polyamide 11 (nylon) designed to meet requirements such as chemical resistance and low permeation to hydrocarbons e.g petrol.

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Revolve® PA12

MFI: N/A Density: 1.050

A polyamide 12 (nylon) designed to meet demanding requirements such as chemical resistance to hydrocarbons e.g petrol.

[Download Datasheet](#)

Revolve® PA11

MFI: N/A Density: 1.050

A polyamide 11 (nylon) designed to meet demanding requirements such as chemical resistance and low permeation to hydrocarbons e.g petrol.

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Revolve® PA HIU

MFI: N/A Density: 1.110

A polyamide 6 grade that exhibits very high stiffness, enhanced impact properties, low moisture absorption, high-temperature and good mouldability.

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Revolve® PA RDN

MFI: N/A Density: 1.142

A polyamide 6 designed to meet demanding requirements such as chemical resistance and low permeation to hydrocarbons e.g petrol.

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Thermoplastic Elastomer

Revolve PB33 is a rotomouldable thermoplastic elastomer which exhibits high temperature resistance and a degree of flexibility which makes the grade suitable for 'under bonnet' automotive applications.



Image courtesy of Sebastian Schleicher

Thermoplastic Elastomer Grades



Revolve® PB33



MFI: N/A Density: 1.01

A thermoplastic elastomer made of flexible polyether and rigid polyamide. The grade offers a wide range of mechanical, physical and chemical properties without compromising on mouldability.

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PVDF

Polyvinylidene Fluoride is a highly non-reactive and pure thermoplastic material. It has outstanding chemical resistance, high temperature resistance and low permeability. Widely used in the chemical, semi-conductor, medical and defence industries.



Image courtesy of Sebastian Schleicher

PVDF Grades



Revolve® PVDF 2850



MFI: N/A Density: 1.71

A polyvinylidene fluoride grade designed to provide outstanding chemical resistance at room temperature, low permeability to hydrocarbons, high rigidity and flame retardancy.

[Download Datasheet](#)

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Get in touch

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Super-Linear® **EXPLORE®** **Designed for Roto®** **Turbo-Blend** **Revolve®**

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