Polypropylene
RP913

Polypropylene Copolymer

Description

RP913 is a polypropylene copolymer intended for injection moulding.

Applications

RP913 has been developed especially for the automotive industry. has been developed especially for the car industry to be used in automotive exterior parts.

Special Features

Very good flow
Good balance in stiffness and impact resistance
Low low temperature performance

Physical Properties

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Property	Typical Value Data should not be used for specification work	Test Method
Density	900 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	20 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	900 MPa	ISO 178
Flexural Strength	26 MPa	ISO 178
Tensile Modulus (1 mm/min)	775 MPa	ISO 527-2
Tensile Strain at Break (50 mm/min)	> 200 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	23 MPa	ISO 527-2
Heat Deflection Temperature (1,82 MPa)	53 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	9 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	4 kJ/m²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	10 kJ/m²	ISO 180/1A

Processing Techniques

The actual conditions will depend on the type of equipment used.

RP913 is easy to process with standard injection moulding machines. To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C. Following parameters should be used as guidelines:

Melt temperature	200 - 240 °C
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 40 °C
Injection speed	Low to medium

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Storage
RP913 should be stored in dry conditions at temperatures below 50°C and protected from UV-light.
Improper storage can initiate degradation, which results in odour generation and colour changes and can have negative effects on the physical properties of this product.

Safety
RP913 is not classified as a dangerous preparation. Dust and fines from the product may give a risk for dust explosion. All equipment should be properly earthed. Inhalation of dust may irritate the respiratory system and should be avoided. During processing of the product small amounts of fumes are generated, which require proper ventilation. The product is not classified as dangerous.

Recycling
The product is suitable for recycling using modern methods of shredding and cleaning. In-house production waste should be kept clean to facilitate direct recycling.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of safety, recovery and disposal of the product. For more information, contact your Borealis representative.

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