

TR503T

Polypropylene Compound, Mineral Filled

Description

TR503T This grade is characterized by excellent impact strength even at low temperatures combined with high stiffness and good flow properties. is a 10% mineral filled polypropylene compound intended for injection moulding. is a polypropylene homopolymer intended for injection moulding.

Applications

TR503T has been developed especially for the automotive industry.

Bumpers

Special Features

impact strength at low temperature

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	Test Method
Data should not be used for specification work		
Density	965 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	13 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.100 MPa	ISO 178
Flexural Strength	22 MPa	ISO 178
Tensile Stress at Yield (50 mm/min)	17 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	95 °C	ISO 75-2
Izod Impact Strength, notched (23 °C)	35 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (0 °C)	15 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5 kJ/m ²	ISO 180/1A
Hardness, Rockwell (R-scale)	85	ISO 2039-2

Application Related Tests

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Processing Techniques

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

TR503T

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

Melt temperature	220 - 240 °C
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 40 °C
Injection speed	Medium

Storage

TR503T 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

TR503T 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.

Recycling

The product is suitable for recycling using modern methods of shredding and cleaning.

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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Disclaimer

The product(s) mentioned herein are not intended to be used for medical, pharmaceutical or healthcare applications and we do not support their use for such applications.

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