



Polypropylene

TR529

Polypropylene Compound, Mineral Filled

Description

TR529 is a 10% mineral reinforced impact modified polypropylene compound suitable for injection moulding.

Applications

TR529 has been developed especially for the car industry to be used in automotive exterior parts.

Special features

Very high impact performance for low temperature applications

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 (23 °C)	950 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133
Flexural Modulus (30 mm/min)	1.250 MPa	ISO 178
Flexural Strength	25 MPa	ISO 178
Tensile Strain at Yield (50 mm/min) (23 °C)	3,5 %	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	19 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (0,45 MPa)	97 °C	ISO 75-2
Izod Impact Strength, notched (23 °C)	40 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	6 kJ/m ²	ISO 180/1A
Hardness, Shore D	62	ISO 868

Combustion Properties

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.

TR529 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:

Drying 100 °C

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

Storage

TR529 should be stored in dry conditions at temperatures below 50°C and protected from UV-light. Improper storage can initiate degradation, and can have negative effects on the physical properties of this product.

Safety

The product is not classified as dangerous. 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.

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.