

Description

SR533 is a polypropylene compound intended for injection moulding.

Applications

SR533 has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Special features

Good stiffness and impact balance

Good impact performance for low temperature applications

Physical Properties

Property	Typical Value Data should not be used for	Test Method specification work	
Density	900 kg/m³	ISO 1183	
Melt Flow Rate (230 °C/2,16 kg)	11 g/10min	ISO 1133	
Flexural Modulus (2 mm/min)	800 MPa	ISO 178	
Flexural Strength	21 MPa	ISO 178	
Tensile Strain at Yield (50 mm/min) (23 °C)	5 %	ISO 527-2	
Tensile Stress at Yield (50 mm/min) (23 °C)	20 MPa	ISO 527-2	
Heat Deflection Temperature Edgewise (1,80 MPa)	50 °C	ISO 75-2	
Vicat softening temperature B50,	54 °C	ISO 306	
Izod Impact Strength, notched (23 °C)	40 kJ/m ²	ISO 180/1A	
Izod Impact Strength, notched (-30 °C)	6 kJ/m²	ISO 180/1A	
Hardness, Shore D	56	ISO 868	
Hardness, Rockwell (R-scale)	70	ISO 2039-2	

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

Combustion Properties

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

Processing Techniques

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

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SR533 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 80°C.

Following parameters should be used as guidelines:

Feeding temperature Mass temperature Holding pressure Back pressure Mould temperature Screw speed Flow front speed 40 - 80 °C 220 - 260 °C 30 - 60 MPa Low to medium 30 - 50 °C Low to medium 100 - 200 mm/s

Storage

SR533 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

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.

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