

Polypropylene

SH407

Polypropylene Compound, Mineral Filled

Description

SH407 is a 26% mineral filled polypropylene compound intended for injection moulding. It is designed for automotive Interior parts. SH407 is characterised by a combination of high stiffness and high impact strength, also at low temperatures.

Applications

SH407 has been developed especially for the car industry to be used in automotive interior parts.

Instrument panel carriers

Special Features

SH407 has been developed especially for the automotive industry.

temperature resistance
stiffness

impact resistance

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	1080 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	2.100 MPa	ISO 178
Tensile Stress at Yield (50 mm/min)	20 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	110 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	7,0 kJ/m ²	ISO 179-1
Charpy Impact Strength, notched (-20 °C)	2,5 kJ/m ²	ISO 179-1

Application Related Tests

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 3 mm	Max100 mm/min	ISO 3795

Processing Techniques

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

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C. SH407 is easy to process with standard injection moulding machines. Following moulding 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

SH407 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.

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.

Regional Availability

South America

For information on regional availability please contact Borealis Sales Representative.

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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