Polypropylene

Daplen™ MF280WGB

Polypropylene Compound, Mineral Filled

Description

Daplen MF280WGB is a 20% mineral filled polypropylene compound intended for injection moulding.

Applications

Daplen MF280WGB has been developed especially for the white goods industry.

White goods

Air conditioning parts

Special features

UV stabilised
High stiffness

Excellent flow

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 (23 °C)	1035 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	18 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	3.200 MPa	ISO 178
Flexural Strength	55 MPa	ISO 178
Tensile Modulus (1 mm/min) (23 °C)	3.300 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	37 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (1,80 MPa)	75 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	2,6 kJ/m²	ISO 179
Charpy Impact Strength, unnotched (23 °C)	25 kJ/m²	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	3,6 kJ/m²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	25 kJ/m²	ISO 180/1U

Combustion Properties

Property	Typical Value Data should not be used for specification work	Test Method
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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Daplen MF280WGB 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	220 - 240 °C
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 60 °C
Injection speed	Low to medium

Storage

Daplen MF280WGB 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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