Polypropylene
ZP961
Polypropylene Compound

Description
ZP961 is a polypropylene copolymer intended for injection moulding and blow moulding.

Applications
ZP961 has been developed especially for the car industry to be used in automotive exterior parts.

Break fluid reservoirs

Special features

Very good stiffness
Very good dimensional stability
Very good chemical resistance
Very good heat deformation resistance

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density (23 °C)	909 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	0,7 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.400 MPa	ISO 178
Flexural Strength	38 MPa	ISO 178
Tensile Strain at Yield (50 mm/min)	3 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	34 MPa	ISO 527-2
Heat Deflection Temperature (0,45 MPa)	95 °C	ISO 75-2
Heat Deflection Temperature (1,8 MPa)	50 °C	ISO 75-2
Charpy Impact Strength, notched (23 °C)	20 kJ/m²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	20 kJ/m²	ISO 180/1A

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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Following parameters should be used as guidelines:

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Barrel	200 - 230 °C
Melt temperature	190 - 230 °C
Holding pressure	50-70% of injection pressure
Mould temperature	20 - 40 °C
Injection speed	Low to medium

Storage
ZP961 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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