



Polypropylene

ZC011

Polypropylene Compound, Mineral Filled

Description

ZC011 is a Mineral filled polypropylene compound intended for extrusion moulding.

The product is 30% Mineral filled.

Applications

ZC011 has been developed especially for the car industry to be used in automotive exterior parts.

Sheets and profiles

Special features

Very good stiffness
Very good dimensional stability

Very good chemical resistance
High heat stabilised

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)	1130 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	1 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	2.300 MPa	ISO 178
Flexural Strength	35 MPa	ISO 178
Tensile Strain at Yield (50 mm/min) (23 °C)	3 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	29 MPa	ISO 527-2
Heat Deflection Temperature Edgewise (0,45 MPa)	135 °C	ISO 75-2
Heat Deflection Temperature Edgewise (1,82 MPa)	70 °C	ISO 75-2
Vicat softening temperature B50,	80 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	8 kJ/m ²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	8 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (0 °C)	4 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	2,3 kJ/m ²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	45 kJ/m ²	ISO 180/1U
Hardness, Shore D	68	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

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Processing Techniques

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

Following parameters should be used as guidelines:

Cylinder	190 - 230 °C
Head	200 - 230 °C
Die	200 - 230 °C
Melt temperature	200 - 230 °C

Storage

ZC011 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.

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.

To the best of our knowledge, the information contained herein is accurate and reliable as of the date of publication, however we do not assume any liability whatsoever for the accuracy and completeness of such information.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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