



## 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 <sup>3</sup> | 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 <sup>2</sup>    | ISO 179/1eA |
| Izod Impact Strength, notched (23 °C)           | 8 kJ/m <sup>2</sup>    | ISO 180/1A  |
| Izod Impact Strength, notched (0 °C)            | 4 kJ/m <sup>2</sup>    | ISO 180/1A  |
| Izod Impact Strength, notched (-30 °C)          | 2,3 kJ/m <sup>2</sup>  | ISO 180/1A  |
| Izod Impact Strength, unnotched (23 °C)         | 45 kJ/m <sup>2</sup>   | 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    |

 **Polypropylene**  
**ZC011****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.

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