



# Polypropylene XR557

Polypropylene Compound, Mineral Filled

## Description

**XR557** is a Mineral filled polypropylene compound intended for extrusion moulding.

The product is 10% Mineral filled.

## Applications

Corrugated pipes

Extrusion of conduit pipes

## Special features

Good stiffness and impact balance  
High impact strength

Improved high thermal stability

## Physical Properties

| Property                                        | Typical Value         | Test Method |
|-------------------------------------------------|-----------------------|-------------|
| Data should not be used for specification work  |                       |             |
| Density (23 °C)                                 | 980 kg/m <sup>3</sup> | ISO 1183    |
| Melt Flow Rate (230 °C/2,16 kg)                 | 1,3 g/10min           | ISO 1133    |
| Flexural Modulus (2 mm/min)                     | 770 MPa               | ISO 178     |
| Flexural Strength                               | 16 MPa                | ISO 178     |
| Tensile Stress at Yield (50 mm/min) (23 °C)     | 17 MPa                | ISO 527-2   |
| Heat Deflection Temperature Edgewise (1,82 MPa) | 45 °C                 | ISO 75-2    |
| Izod Impact Strength, notched (23 °C)           | 55 kJ/m <sup>2</sup>  | ISO 180/1A  |
| Izod Impact Strength, notched (-30 °C)          | 5 kJ/m <sup>2</sup>   | ISO 180/1A  |
| Izod Impact Strength, unnotched (23 °C)         | No break              | ISO 180/1U  |

## 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    |

## Processing Techniques

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

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

|                  |              |
|------------------|--------------|
| Cylinder         | 200 - 220 °C |
| Head             | 210 - 220 °C |
| Die              | 210 - 220 °C |
| Melt temperature | 210 - 230 °C |

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 **Polypropylene**  
**XR557****Storage**

**XR557** 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.**

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