



Description

Daplen EF005AE is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness, gives a good surface quality and is easy to process.

Applications

Daplen EF005AE has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers Spoilers Exterior trims

Special Features

Suitable for applications, which require low expansion over a broad temperature scale UV stabilised Low in tigerstripes High flowability

Physical Properties

Property	Typical Value Data should not be used for	Test Method specification work	
Density Melt Flow Rate (230 °C/2,16 kg)	1060 kg/m³ 25 g/10min	ISO 1183 ISO 1133	
Flexural Modulus (2 mm/min)	1.070 MPa	ISO 178	
Tensile Strength (50 mm/min) Heat Deflection Temperature B (0,45 MPa)	16 MPa 85 °C	ISO 527-2 ISO 75-2	
Coefficient of Thermal Expansion (-30 °C/80 °C) Charpy Impact Strength, notched (23 °C)	65 μm/mK 52 kJ/m²	Borealis Method ISO 179/1eA	
Charpy Impact Strength, notched (-20 °C) Charpy Impact Strength, notched (-30 °C)	6 kJ/m² 4 kJ/m²	ISO 179/1eA ISO 179/1eA	

Values determined on standard injection moulded specimens conditioned at 23°C and 50% relative humidity after at least 96 hours storage time.

Processing Techniques

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

Injection Moulding

This product 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 80°C. Following parameters should be used as guidelines:







Feeding temperature Mass temperature Back pressure Holding pressure Mould temperature Screw speed Flow front speed 40 - 80 °C 220 - 260 °C Low to medium 30 - 60 MPa 30 - 50 °C Low to medium 100 - 200 mm/s

Storage

Daplen EF005AE 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 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.

Please see our "Safety data sheet" / "Product safety information sheet" for details on various aspects of recovery and disposal of the product.

Regional Availability

Europe

For information on regional availability please contact Borealis Sales Representative.







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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