

Polypropylene

Daplen™ EE058AI

Polypropylene TPO Compound

Description

Daplen™ EE058AI is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has an excellent balance between impact strength and stiffness at low density and shows further more excellent surface appearance.

Applications

Daplen EE058AI has been developed especially for the car industry to be used in automotive interior parts.

Pillar trims	Trunk claddings
Door panels and pockets	Other automotive interior parts
Dashboards	

Special Features

Excellent scratch resistance	High purity
High dimensional stability	Broad processing window
No tendency to show stickiness after outdoor exposure	

Physical Properties

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Density	970 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	12 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.600 MPa	ISO 178
Tensile Strength (50 mm/min)	21 MPa	ISO 527-2
Heat Deflection Temperature B (0,45 MPa)	94 °C	ISO 75-2
Charpy Impact Strength, notched (-20 °C)	4 kJ/m ²	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.

Application Related and Other Tests

Property	Typical Value	Test Method
<small>Data should not be used for specification work</small>		
Fogging (100 °C,16 h)	< 1,5 mg	DIN 75201
Emission	< 40 µgC/g	VDA 277

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Processing Techniques

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

Injection Moulding

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. This product is easy to process with standard injection moulding machines. Following parameters should be used as guidelines:

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

Storage

Daplen EE058AI 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

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.

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Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Erwin Kastner

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