



Polypropylene

Daplen™ EE058AI

Polypropylene TPO Compound

Description

Daplen EE058AI is a 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
 Door panels and pockets
 Dashboards

Trunk claddings
 Other automotive interior parts

Special Features

Excellent scratch resistance
 High dimensional stability
 No tendency to show stickiness after outdoor exposure

High purity
 Broad processing window

Physical Properties

| Property | Typical Value | Test Method |
|--|-----------------------|-------------|
| Data should not be used for specification work | | |
| 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 |
|--|---------------|-------------|
| Data should not be used for specification work | | |
| 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

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.

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**Polypropylene****Daplen EE058AI****Disclaimer**

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