

Polypropylene

Daplen™ EG108AI

Polypropylene TPO Compound

Description

Daplen™ EG108AI is a 13% 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 EG108AI has been developed especially for the car industry to be used in automotive interior parts.

| | |
|-------------------------|----------------------------------|
| Dashboards | Automotive interior applications |
| Door panels and pockets | Seat claddings |
| Pillar trims | Center consoles |

Special Features

| | |
|------------------------------|-------------------------|
| Excellent scratch resistance | Low density |
| Broad processing window | Good surface aesthetics |

Physical Properties

| Property | Typical Value | Test Method |
|--|--|-------------|
| | Data should not be used for specification work | |
| Density | 985 kg/m ³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 22 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.650 MPa | ISO 178 |
| Tensile Modulus | 1.600 MPa | ISO 527-2 |
| Tensile Strength (50 mm/min) | 18,5 MPa | ISO 527-2 |
| Charpy Impact Strength, notched (23 °C) | 40 kJ/m ² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 5,5 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.

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 | 40 - 80 °C |
| Mass temperature | 210 - 250 °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 EG108AI 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.

Daplen is a trademark of the Borealis group.

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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.

Issuer:

Marketing Automotive / Georg Grestenberger
Product Management / Albin Mariacher

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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