Polypropylene

Daplen™ EG066AI

Polypropylene Elastomer Modified

Description

Daplen EG066AI is an elastomer modified polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness.

Applications

Daplen EG066AI has been developed especially for the car industry to be used in automotive interior parts.

Door panels and pockets
Center consoles

Special features

UV stabilised
High flowability
High crystallinity

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	905 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	22 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.000 MPa	ISO 178
Flexural Strength	25 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.050 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	4,3 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	20 MPa	ISO 527-2
Heat Deflection Temperature A (1,80 MPa)	50 °C	ISO 75-2
Heat Deflection Temperature B (0,45 MPa)	81 °C	ISO 75-2
Vicat softening temperature A,	142 °C	ISO 306
Vicat softening temperature B,	54 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	38 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	8 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	6,5 kJ/m²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	No break	ISO 179/1eU
Charpy Impact Strength, unnotched (-20 °C)	No break	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	38 kJ/m²	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	7 kJ/m²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	6 kJ/m²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	No break	ISO 180/1U
Izod Impact Strength, unnotched (-20 °C)	No break	ISO 180/1U
Hardness, Ball Indentation H 358/30	47 MPa	ISO 2039

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

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Application Related and other Tests

Property	Typical Value Data should not be used for specification work	Test Method
Mould average Shrinkage [1]	1,5 %	Borealis Method
Melt energy	86 kJ/kg	DSC ISO 11357

[1] VALUES MAY ONLY BE USED AS INDICATION, AND SHOULD NOT BE USED DIRECTLY IN MOULD DESIGN WITHOUT PRIOR VALIDATION

Processing Techniques

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

Injection mouldingThis 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 moulding 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 bar
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

Daplen EG066AI 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.

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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.

Borealis makes no warranties which extend beyond the description contained herein. Nothing herein shall constitute any warranty of merchantability or fitness for a particular purpose.

It is the customer's responsibility to inspect and test our products in order to satisfy itself as to the suitability of the products for the customer's particular purpose. The customer is responsible for the appropriate, safe and legal use, processing and handling of our products.

No liability can be accepted in respect of the use of any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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