



Polypropylene
DaplenTM **EF261AI**
 Polypropylene TPO Compound

Description

Daplen EF261AI is a 20 % mineral filled polypropylene compound intended for injection moulding.

This material has an excellent balance between impact strength and stiffness and is easy to process.

Applications

Daplen EF261AI has been developed especially for the car industry to be used in automotive interior parts.

Automotive interior applications
 Dashboards
 Door panels and pockets

Other automotive interior parts
 Center consoles

Special features

Good scratch resistance

Physical Properties

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

Property	Typical Value	Test Method
	Data should not be used for specification work	
Density	1040 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	14 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.800 MPa	ISO 178
Flexural Strain	4,9 %	ISO 178
Flexural Strength	24 MPa	ISO 178
Flexural Stress at 3,5 % Strain	23 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.700 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	5 %	ISO 527-2
Tensile Strain at Break	110 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	18 MPa	ISO 527-2
Tensile Stress at Break	12 MPa	ISO 527-2
Heat Deflection Temperature A (0,45 MPa)	94 °C	ISO 75-2
Heat Deflection Temperature B (1,80 MPa)	52 °C	ISO 75-2
Vicat softening temperature A50, (10 N)	118 °C	ISO 306
Vicat softening temperature B50, (50 N)	42 °C	ISO 306
Coefficient of Thermal Expansion (-30 °C/80 °C)	49 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	43 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,6 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, unnotched (-20 °C)	65 kJ/m ²	ISO 179/1eU
Charpy Impact Strength, unnotched (23 °C)	No break	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	38 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	4,5 kJ/m ²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	No break	ISO 180/1U
Izod Impact Strength, unnotched (-20 °C)	42 kJ/m ²	ISO 180/1U
Hardness, Ball Indentation H 358/30	32 MPa	ISO 2039

Daplen is a trademark of Borealis A/S, Denmark.

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Application Related Tests

Property	Typical Value Data should not be used for specification work	Test Method
Fogging (100 °C, 16 h)	< 2 mg	DIN 75201
Emission	< 50 µgC/g	VDA 277
Mould average Shrinkage (disk) ¹	0,6 %	Borealis Method

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 Moulding

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

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

Storage

Daplen EF261AI 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 a dangerous preparation.

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.



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

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.

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