



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/m3	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/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	4,6 kJ/m²	ISO 179/1eA
Charpy Impact Strength, unnotched (-20 °C)	65 kJ/m²	ISO 179/1eU
Charpy Impact Strength, unnotched (23 °C)	No break	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	38 kJ/m²	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	4,5 kJ/m²	ISO 180/1A
Izod Impact Strength, unnotched (23 °C)	No break	ISO 180/1U
Izod Impact Strength, unnotched (-20 °C)	42 kJ/m²	ISO 180/1U
Hardness, Ball Indentation H 358/30	32 MPa	ISO 2039







Application Related Tests

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

80 °C
- 260 °C
60 bar
to medium
50 °C
to medium
- 200 m/min
- 260 °C 60 bar to medium 50 °C to medium

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.

