

12.02.2015 Ed.3



Polypropylene

Daplen™ EE168AIB

Polypropylene Compound, Mineral Filled

Description

Daplen EE168AIB is a 10% mineral filled polypropylene compound intended for injection moulding.

Applications

Daplen EE168AIB has been developed especially for the car industry to be used in automotive interior parts.

Dashboards
Door panels and pockets

Pillar trims
Automotive interior applications

Special features

High scratch resistance
Low gloss

High dimensional stability
Very good stiffness and impact balance

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 (23 °C)	980 kg/m ³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	10 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.750 MPa	ISO 178
Flexural Strength	30 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.600 MPa	ISO 527-2
Tensile Strain at Yield (50 mm/min)	4 %	ISO 527-2
Tensile Stress at Yield (50 mm/min)	23 MPa	ISO 527-2
Heat Deflection Temperature (1,80 MPa)	59 °C	ISO 75-2
Vicat softening temperature B50, (50 N)	63 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	18 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	5 kJ/m ²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	22 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5 kJ/m ²	ISO 180/1A

Combustion Properties

Property	Typical Value	Test Method
Data should not be used for specification work		
Flammability at thickness 1 mm	Max100 mm/min	ISO 3795

Daplen is a trademark of the Borealis group.

Borealis Brasil S/A | Av. Osvaldo Berto, 700 | Bairro do Pinhal
| Distrito Industrial Alfredo Rela | CEP: 13255-840
| Itatiba - SP | Brasil | Website www.borealisgroup.com

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Daplen EE168AIB**Processing Techniques**

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

Daplen EE168AIB 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	220 - 260 °C
Holding pressure	30 - 60 MPa
Back pressure	Low to medium
Mould temperature	30 - 50 °C
Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage

Daplen EE168AIB 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, recovery and disposal 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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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.

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