



Polypropylene DaplenTM EF210AE

Polypropylene TPO Compound

Description

Daplen EF210AE is a 20% mineral filled elastomer modified polypropylene compound intended for injection moulding.

This material has excellent balanced mechanical properties, gives a good surface quality and is easy to process.

Applications

Daplen EF210AE has been developed especially for the automotive industry.

Bumpers
Exterior trims

Special features

Suitable for applications, which require low expansion over a broad temperature scale
UV stabilised

Excellent surface appearance on unpainted and grained parts
High 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)	22 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.700 MPa	ISO 178
Tensile Modulus (1 mm/min)	1.600 MPa	ISO 527-2
Tensile Strain at Break	300 %	ISO 527-2
Tensile Stress at Yield	17 MPa	ISO 527-2
Heat Deflection Temperature (1,8 MPa)	50 °C	ISO 75-2
Vicat softening temperature A50, (10 N)	120 °C	ISO 306
Coefficient of Thermal Expansion (-30 °C/80 °C)	45	Borealis Method
Charpy Impact Strength, notched (23 °C)	60 kJ/m ²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	5,5 kJ/m ²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	50 kJ/m ²	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5 kJ/m ²	ISO 180/1A

Application Related Tests

Property	Typical Value	Test Method
	Data should not be used for specification work	
Mould average Shrinkage (disk) ¹	0,65 %	Borealis Method

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

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

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Processing Techniques

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

This product is easy to process with standard injection moulding machines. 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 m/min

Storage

Daplen EF210AE 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.

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.

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