21.08.2009 Ed.1

Polypropylene
Daplen™ EE108AE

Polypropylene Compound

Description

Daplen EE108AE is a 10% mineral filled elastomer modified polypropylene compound intended for injection moulding.

Applications

Daplen EE108AE has been developed especially for applications like:

Spoilers
Body side mouldings
Body panels

Special features

Daplen EE108AE has been developed especially for the car industry to be used in automotive exterior parts.

scratch resistance
surface
thermal expansion
UV stabilised

Physical Properties

Property	Typical Value Data should not be used for specification work	Test Method
Density	990 kg/m3	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	16 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.100 MPa	ISO 178
Flexural Strength	22 MPa	ISO 178
Heat Deflection Temperature (0,45 MPa)	86 °C	ISO 75-2
Heat Deflection Temperature (1,8 MPa)	49 °C	ISO 75-2
Vicat softening temperature A, (10 N)	132 °C	ISO 306
Vicat softening temperature B, (50 N)	45 °C	ISO 306
Coefficient of Thermal Expansion (23 °C/80 °C)	60 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	35 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	6 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	4 kJ/m²	ISO 179/1eA
Charpy Impact Strength, unnotched (23 °C)	No break	ISO 179/1eU
Charpy Impact Strength, unnotched (-20 °C)	195 kJ/m²	ISO 179/1eU
Izod Impact Strength, notched (23 °C)	22 kJ/m²	ISO 180/1A
Izod Impact Strength, notched (-20 °C)	5 kJ/m²	ISO 180/1A
Hardness, Ball Indentation H 132/10 /10 s	30 MPa	ISO 2039

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:

Mass temperature 220 - 260 °C

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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 EE108AE 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

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. The product is not classified as a dangerous preparation.

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.

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 Borealis' products in conjunction with other materials. The information contained herein relates exclusively to our products when not used in conjunction with any third party materials.

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