Polypropylene

Daplen™ EH104AEB

Polypropylene Compound, Mineral Filled

Description

Daplen EH104AEB is a 12% mineral reinforced impact modified polypropylene compound suitable for injection moulding.

Applications

Daplen EH104AEB has been developed especially for the car industry to be used in automotive exterior parts.

Bumpers

Exterior trims

Special features

Excellent balance in stiffness and impact resistance
High melt flow
Excellent surface appearance on unpainted and grained parts
UV stabilised
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 Data should not be used for specification work	Test Method
Density (23 °C)	980 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	40 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.150 MPa	ISO 178
Flexural Strength	21 MPa	ISO 178
Tensile Modulus (1 mm/min) (23 °C)	1.150 MPa	ISO 527-2
Tensile Stress at Yield (50 mm/min) (23 °C)	16 MPa	ISO 527-2
Vicat softening temperature A50,	122 °C	ISO 306
Charpy Impact Strength, notched (23 °C)	31 kJ/m²	ISO 179/1eA

Combustion Properties

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

Processing Techniques

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

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Daplen EH104AEB 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 95° - 105°C.Following parameters should be used as guidelines:

Melt temperature	200 - 260 °C
Holding pressure	50-70% of injection pressure
Mould temperature	30 - 50 °C
Injection speed	Low to medium

Storage

Daplen EH104AEB 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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