Polypropylene
Daplen™ EH340AE

Polypropylene TPO Compound

Description

Daplen EH340AE is a mineral filled elastomer modified polypropylene compound intended for injection moulding. This material has excellent balanced mechanical properties, is easy to process and is designed to give excellent surface quality.

Applications

Daplen EH340AE has been developed especially for the automotive industry.

Wheel arch and side trims
Rocker panels
Front grills
Automotive exterior applications

Special Features

Dimensional stability
Low thermal expansion
Excellent surface appearance

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	1100 kg/m³	ISO 1183
Melt Flow Rate (230 °C/2,16 kg)	43 g/10min	ISO 1133
Flexural Modulus (2 mm/min)	1.900 MPa	ISO 178
Heat Deflection Temperature B (0,45 MPa)	105 °C	ISO 75-2
Coefficient of Thermal Expansion (-30 °C/80 °C)	46 µm/mK	Borealis Method
Charpy Impact Strength, notched (23 °C)	12 kJ/m²	ISO 179/1eA
Charpy Impact Strength, notched (-20 °C)	2,9 kJ/m²	ISO 179/1eA

Processing Techniques

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

Injection Moulding

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 80°C. 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

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Head Office Tel. +85-2-6957-5415
Research Center Tel.+188 1699 6168

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Screw speed	Low to medium
Flow front speed	100 - 200 mm/s

Storage
Daplen EH340AE 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 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.

Regional Availability
Europe
For information on regional availability please contact Borealis Sales Representative.

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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.

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 any Borealis product in conjunction with any other products and/or materials. The information contained herein relates exclusively to our products when not used in conjunction with any other material unless as specifically provided for in the test methods stated above.

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