# Polypropylene
# Daplen™ EE158AIB
Polypropylene TPO Compound

## Description
**Daplen EE158AIB** is a 13% mineral filled polypropylene compound intended for injection moulding.

## Applications
**Daplen EE158AIB** has been developed especially for the car industry to be used in automotive interior parts.

Dashboards                                           Automotive interior applications
Door panels and pockets

## Special features

High scratch resistance                              No tendency to show stickiness after outdoor exposure

## 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) | 990 kg/m³ | ISO 1183 |
| Melt Flow Rate (230 °C/2,16 kg) | 11 g/10min | ISO 1133 |
| Flexural Modulus (2 mm/min) | 1.750 MPa | ISO 178 |
| Flexural Strength | 30 MPa | ISO 178 |
| Tensile Strain at Yield (50 mm/min) (23 °C) | 6 % | ISO 527-2 |
| Tensile Stress at Yield (50 mm/min) (23 °C) | 23 MPa | ISO 527-2 |
| Heat Deflection Temperature Edgewise (0,45 MPa) | 95 °C | ISO 75-2 |
| Heat Deflection Temperature Edgewise (1,82 MPa) | 54 °C | ISO 75-2 |
| Vicat softening temperature A50, | 131 °C | ISO 306 |
| Charpy Impact Strength, notched (23 °C) | 25 kJ/m² | ISO 179/1eA |
| Charpy Impact Strength, notched (-20 °C) | 5 kJ/m² | ISO 179/1eA |
| Charpy Impact Strength, unnotched (23 °C) | 170 kJ/m² | ISO 179/1eU |

## 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.

Daplen is a trademark of the Borealis group.

**BOREALIS**

**Polypropylene**
# Daplen EE158AIB

To avoid residual humidity from transport or storage, the material should be pre-dried approximately 2h at 95° - 105°C. Daplen EE158AIB is easy to process with standard injection moulding machines.Following 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 mm/s |

## Storage
**Daplen EE158AIB** 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.

**BOREALIS**

**Polypropylene**
# Daplen EE158AIB

**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.

**BOREALIS**