



# 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 Data should not be used for	Test Method specification work
Density	1040 kg/m3	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 <sup>2</sup>	ISO 179/1eA
Charpy Impact Strength, notched (-30 °C)	5,5 kJ/m²	ISO 179/1eA
Izod Impact Strength, notched (23 °C)	50 kJ/m <sup>2</sup>	ISO 180/1A
Izod Impact Strength, notched (-30 °C)	5 kJ/m²	ISO 180/1A

## **Application Related Tests**

Property	Typical Value Data should not be used for specif	Test Method ication work
Mould average Shrinkage (disk) <sup>1</sup>	0,65 %	Borealis Method

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







## **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 Mass temperature Back pressure Holding pressure Mould temperature Screw speed Flow front speed 40 - 80 °C 220 - 260 °C Low to medium 30 - 60 bar 30 - 50 °C Low to medium 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.

