

Daplen™ EG203AE

Polypropylene
Borealis AG



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Technical Data

Product Description

Daplen EG203AE is a 20% mineral and elastomer modified polypropylene compound intended for injection moulding.

Daplen EG203AE is a material with excellent impact / stiffness ratio. Thanks to its outstanding low thermal expansion this material is suitable to mould parts requiring a low change of dimensions over a broad temperature range with excellent surface aesthetics.

Daplen EG203AE is optimised to give high quality parts with the best production efficiency in combination with a broad processing window. To achieve a sufficient level of adhesion for painting or gluing, the use of flaming or other pre-treatment is necessary.

Automotive exterior applications:

- rocker panels
- exterior trims

General

Material Status	• Commercial: Active
Search for UL Yellow Card	• Borealis AG
Availability	• Europe • Latin America • North America
Filler / Reinforcement	• Mineral, 20% Filler by Weight
Features	• Good Impact Resistance • Paintable • Good Stiffness • Recyclable Material
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Exterior Trim
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	1.04 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	25 g/10 min	ISO 1133
Molding Shrinkage		ISO 294-4
--	0.60 %	
90°C, 2 hr	0.10 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Stress (Yield, Injection Molded)	15.0 MPa	ISO 527-2/50
Flexural Modulus ² (Injection Molded)	1250 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-20°C	5.0 kJ/m ²	
23°C	35 kJ/m ²	
Charpy Unnotched Impact Strength (23°C)	No Break	ISO 179/1eU
Notched Izod Impact Strength		ISO 180/1A
-20°C	4.5 kJ/m ²	
23°C	32 kJ/m ²	

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		ISO 75-2/B
0.45 MPa, Unannealed	105 °C	
CLTE - Flow (23 to 80°C)	0.000050 cm/cm/°C	ISO 11359-2

Additional Information

The values listed as Molding Shrinkage, ISO 294-4, were tested in accordance with Borealis test methods.
The value listed as CLTE, 11359-1, -2, was tested in accordance with DIN 53752.

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 hr
Processing (Melt) Temp	220 to 260 °C
Mold Temperature	30.0 to 50.0 °C

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Injection	Nominal Value Unit
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Injection Rate	Slow-Moderate
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Injection Notes

Screw Speed: slow to medium
Holding Pressure: 50 to 70% of the injection pressure

Notes

¹ Typical properties: these are not to be construed as specifications.

² 5.0 mm/min

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Where to Buy

Supplier

Borealis AG

Vienna, Austria

Telephone: +43 1 22 400 302

Web: <http://www.borealisgroup.com/>

Distributor

Nexeo Solutions - Europe

Nexeo Solutions is a Pan European distribution company. Contact Nexeo for availability of individual products by country.

Telephone: +34-93-480-9125

Web: <http://www.nexeosolutions.com/>

Availability: Austria, Belgium, Czech Republic, Denmark, Finland, France, Germany, Ireland, Italy, Netherlands, Norway, Poland, Portugal, Spain, Sweden, Switzerland, United Kingdom

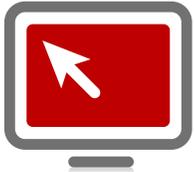
Polymer Z

Telephone: 248-705-5322

Availability: North America



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– Kevin Chase, Owner & President, Chase Plastics



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