

Daplen™ EE002AE

Polypropylene
Borealis AG



ides.com/prospector

Technical Data

Product Description

Daplen EE002AE is a reactor elastomer modified polypropylene compound intended for injection moulding. The product is available in natural colour.

This material has excellent balanced mechanical properties and gives a good surface quality.

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet (English)
Search for UL Yellow Card	• Borealis AG
Availability	• Asia Pacific • Europe • North America
Features	• Good Surface Finish • Recyclable Material
Uses	• Automotive Applications • Automotive Exterior Parts • Automotive Bumper • Automotive Exterior Trim
Appearance	• Natural Color
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Density	0.905 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	11 g/10 min	ISO 1133
Molding Shrinkage		Internal Method
-- ³	1.4 %	
90°C, 2 hr	0.15 %	

Mechanical	Nominal Value Unit	Test Method
Tensile Modulus	950 MPa	ISO 527-2/1
Tensile Stress (Yield)	19.0 MPa	ISO 527-2/50
Tensile Strain		ISO 527-2/50
Yield	5.5 %	
Break	> 150 %	
Flexural Modulus ⁴	900 MPa	ISO 178
Flexural Strength	21.0 MPa	ISO 178

Impact	Nominal Value Unit	Test Method
Charpy Notched Impact Strength		ISO 179/1eA
-30°C	7.0 kJ/m ²	
-20°C	11 kJ/m ²	
23°C	70 kJ/m ²	
Charpy Unnotched Impact Strength		ISO 179/1eU
-20°C	No Break	
23°C	No Break	
Notched Izod Impact Strength		ISO 180/1A
-20°C	9.0 kJ/m ²	
23°C	57 kJ/m ²	

Hardness	Nominal Value Unit	Test Method
Shore Hardness (Shore D)	55	ISO 868
Ball Indentation Hardness (H 132/10)	36.0 MPa	ISO 2039-1

Thermal	Nominal Value Unit	Test Method
Heat Deflection Temperature		
0.45 MPa, Unannealed	75.0 °C	ISO 75-2/B
1.8 MPa, Unannealed	48.0 °C	ISO 75-2/A

Daplen™ EE002AE

Polypropylene

Borealis AG

Thermal	Nominal Value Unit	Test Method
Vicat Softening Temperature		
--	135 °C	ISO 306/A50
--	45.0 °C	ISO 306/B50
CLTE - Flow (-30 to 80°C)	0.00010 cm/cm/°C	Internal Method

Injection	Nominal Value Unit
Drying Temperature	80.0 °C
Drying Time	2.0 hr
Hopper Temperature	40.0 to 80.0 °C
Processing (Melt) Temp	220 to 260 °C
Mold Temperature	30.0 to 50.0 °C
Holding Pressure	30.0 to 60.0 MPa

Injection Notes

Back Pressure: low to medium
Flow front speed: 100 to 200 mm/s
Screw Speed: slow to medium

Notes

¹ These links provide you with access to supplier literature. We work hard to keep them up to date; however you may find the most current literature from the supplier.

² Typical properties: these are not to be construed as specifications.

³ disk

⁴ 2.0 mm/min

Daplen™ EE002AE

Polypropylene

Borealis AG

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

RESINEX Group

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

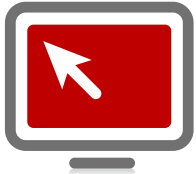
Telephone: +32-14-672511

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

Availability: Europe



Founded in 1986 and based in Laramie, Wyoming, IDES is now part of the UL family of companies. UL is a premier global independent safety science company with more than a century of proven history. Employing nearly 10,000 professionals in over 100 countries, UL has five distinct business units -- Product Safety, Environment, Life & Health, Knowledge Services and Verification Services -- to meet the expanding needs of our customers and to deliver on our public safety mission.



Prospector Plastics Database - www.ides.com/prospector

Prospector is a searchable online database that includes 85,000 data sheets from 875 manufacturers and 44,000 UL yellow cards. Each data sheet includes property, processing and supplier contact information. Prospector is relied on by nearly 400,000 design engineers and plastics processors. Using Prospector, they save time with plastic material selection by quickly and easily referencing technical information critical to the success of their products.

"Prospector is absolutely the best and most well-known search engine for plastic raw materials in the world. We use Prospector every day – it's a real time saver!"

– Birgit Elvardt Bader, Production Manager, Micotron

Power Searches

Property Search – select plastics by 500 key properties and design parameters.

Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



Material Data Management – www.ides.com/datasheets

With our data management services, plastic suppliers and distributors can have custom search interfaces available on their website for their customers, website visitors, sales and customer service teams. These provide intuitive ways to find and view technical data sheets for their products.

"With UL IDES data services, our website now displays the most current information on the products we distribute and links to our backend RFQ and sales order system, adding both value and service for our customers."

– Kevin Chase, Owner & President, Chase Plastics



Advertising – www.ides.com/advertise

Reach 365,000 pre-qualified plastics professionals and generate leads with proven techniques. Electronic newsletter insertions, sponsored webinars and powerful online ads are available to make the most of your lead-generation program.



For more information, call: 800.788.4668 or 307.742.9227 ext. 220