

Moplen EP332L

Polypropylene Impact Copolymer
LyondellBasell Industries



ides.com/prospector

Technical Data

Product Description

Moplen EP332L is a heterophasic copolymer and is formulated with a highly effective heat stabilisation package. It exhibits a good fluidity combined with a good balance of impact and stiffness as well as a low warpage tendency.
Moplen EP332L is applied in injection moulding applications requiring a good resistance to long term heat exposure, in particular for battery cases and automotive components.
Moplen EP332L is suitable for food contact.

General

Material Status	• Commercial: Active
Availability	• Africa & Middle East • Asia Pacific • Europe • Latin America
Additive	• Heat Stabilizer
Features	• Food Contact Acceptable • Good Heat Aging Resistance • Good Impact Resistance • Good Stiffness • Heat Stabilized • Impact Copolymer • Low Warpage • Medium Flow
Uses	• Automotive Applications • Battery Cases
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	0.900 g/cm ³	0.900 g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	7.0 g/10 min	7.0 g/10 min	ISO 1133
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	0.580 in ³ /10min	9.50 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	174000 psi	1200 MPa	ISO 527-2
Tensile Stress (Yield)	3770 psi	26.0 MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	8.0 %	8.0 %	
Break	50 %	50 %	

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-4°F (-20°C)	1.7 ft·lb/in ²	3.5 kJ/m ²	
32°F (0°C)	2.1 ft·lb/in ²	4.5 kJ/m ²	
73°F (23°C)	3.6 ft·lb/in ²	7.5 kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F (-20°C)	38 ft·lb/in ²	80 kJ/m ²	
32°F (0°C)	67 ft·lb/in ²	140 kJ/m ²	
73°F (23°C)	No Break	No Break	

Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Ball Indentation Hardness (H 358/30)	7690 psi	53.0 MPa	ISO 2039-1

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Heat Deflection Temperature 66 psi (0.45 MPa), Unannealed	158 °F	70.0 °C	ISO 75-2/B
Vicat Softening Temperature			
--	298 °F	148 °C	ISO 306/A50
--	153 °F	67.0 °C	ISO 306/B50

Notes

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

Where to Buy

Supplier

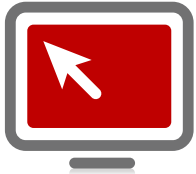
LyondellBasell Industries
Wilmington, DE USA
Telephone: 713-309-7200
Web: <http://polymers.lyondellbasell.com/portal/site/basell/>

Distributor

Ultrapolymers
Ultrapolymers is a Pan European distribution company. Contact Ultrapolymers for availability of individual products by country.
Telephone: +32-11-57-95-57
Web: <http://www.ultrapolymers.com/>
Availability: Belarus, Belgium, Bosnia and Herzegovina, Bulgaria, Croatia, Denmark, Estonia, Finland, France, Germany, Hungary, Ireland, Italy, Latvia, Lithuania, Macedonia, Netherlands, Norway, Portugal, Romania, Serbia, Slovakia, Slovenia, Spain, Sweden, Turkey, United Kingdom



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