

Technical Data

General

Material Status	• Commercial: Active
Literature ¹	• Technical Datasheet
UL Yellow Card ²	• E121562-101231681
Search for UL Yellow Card	• SABIC Innovative Plastics • ESPREE
Availability	• North America
Additive	• Lubricant
Features	• General Purpose • Lubricated
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value Unit	Test Method
Specific Gravity	1.14 g/cm ³	ASTM D792
Molding Shrinkage - Flow	1.3 to 1.5 %	ASTM D955
Mechanical	Nominal Value Unit	Test Method
Tensile Strength ⁴ (Ultimate, 3.18 mm)	79.3 MPa	ASTM D638
Flexural Modulus ⁵ (3.18 mm)	2760 MPa	ASTM D790
Impact	Nominal Value Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48 J/m	ASTM D256
Thermal	Nominal Value Unit	Test Method
Deflection Temperature Under Load 1.8 MPa, Unannealed, 3.18 mm	82.2 °C	ASTM D648
Melting Temperature	249 °C	
Flammability	Nominal Value Unit	Test Method
Flame Rating 3.25 mm, BK, NC 1.80 mm, RD	V-2 V-0	UL 94

Injection	Nominal Value Unit
Drying Temperature	82.2 °C
Drying Time	2.0 hr
Drying Time, Maximum	8.0 hr
Suggested Shot Size	40 to 80 %
Rear Temperature	249 to 282 °C
Middle Temperature	260 to 288 °C
Front Temperature	271 to 304 °C
Nozzle Temperature	271 to 304 °C
Processing (Melt) Temp	271 to 304 °C
Mold Temperature	65.6 to 110 °C
Back Pressure	0.172 to 1.03 MPa
Screw Speed	50 to 150 rpm

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 A UL Yellow Card contains UL-verified flammability and electrical characteristics. UL IDES continually works to link Yellow Cards to individual plastic materials in Prospector, however this list may not include all of the appropriate links. It is important that you verify the association between these Yellow Cards and the plastic material found in Prospector. For a complete listing of Yellow Cards, visit the UL Yellow Card Search.

³ Typical properties: these are not to be construed as specifications.

⁴ 51 mm/min

⁵ 1.3 mm/min

Where to Buy

Supplier

SABIC Innovative Plastics
Pittsfield, MA USA
Telephone: 800-845-0600
Web: <http://www.sabic-ip.com/>

Distributor

Nexeo Solutions
Telephone: 800-531-7106
Web: <http://www.nexeosolutions.com/>
Availability: North America



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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

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Alternative Resins Search – find replacement plastics within minutes.

Automotive Plastics Search – easily locate automotive approved plastics.

Curve Data – view, overlay and export curve data.



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"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



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