

Technical Data Sheet



Polyfort PP 1259

Polypropylene Impact Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Polyfort PP 1259 is a medium impact polypropylene with easier molding characteristics for thinner parts and longer flow distances. Lower molding pressures and heats often reduce warpage and mold cycles. Approved for automotive use.

General

Material Status	• Commercial: Active		
Availability	• Asia Pacific	• North America	
Features	• Fast Molding Cycle • Good Processability	• Impact Copolymer • Low Warpage	• Medium Impact Resistance
Uses	• Automotive Applications		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.902	0.900 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	8.0 g/10 min	8.0 g/10 min	ASTM D1238
Water Absorption (24 hr)	0.030 %	0.030 %	ASTM D570
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	3500 psi	24.1 MPa	ASTM D638
Tensile Elongation (Yield)	7.0 %	7.0 %	ASTM D638
Flexural Modulus	165000 psi	1140 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	2.5 ft·lb/in	130 J/m	ASTM D256
Unnotched Izod Impact	30 ft·lb/in	1600 J/m	ASTM D4812
Hardness	Nominal Value (English)	Nominal Value (SI)	Test Method
Rockwell Hardness (R-Scale)	75	75	ASTM D785
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	195 °F	90.6 °C	
264 psi (1.8 MPa), Unannealed	135 °F	57.2 °C	
Melting Temperature ²	330 °F	166 °C	Internal Method
Flammability	Nominal Value (English)	Nominal Value (SI)	
Burning Rate	1.4 in/min	36 mm/min	

Notes

¹ 2.0 in/min (51 mm/min)

² Fisher Johns

Notes

These are typical property values not to be construed as specification limits.

Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

Product Storage and Handling

- Product should be stored in dry conditions at temperatures below 50°C and protected from UV-light
- Improper storage may bring damage to the packaging and can negatively affects on the quality of this product
- Keep material completely dry for good processing

Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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