

Technical Data Sheet



Polyfort PP 1407

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description

PP High Impact Unfilled

General

Material Status	• Commercial: Active
Availability	• North America
Features	• High Impact Resistance
Automotive Specifications	• GM GMP.PP.027 Color: Black • GM GMP.PP.027 Color: Natural
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.912	0.910 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	2900 psi	20.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	2300 %	2300 %	ASTM D638
Flexural Modulus ²	145000 psi	1000 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	13 ft·lb/in	700 J/m	ASTM D256
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			ASTM D648
66 psi (0.45 MPa), Unannealed	167 °F	75.0 °C	
264 psi (1.8 MPa), Unannealed	113 °F	45.0 °C	

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	176 °F	80 °C
Drying Time	2.0 to 3.0 hr	2.0 to 3.0 hr
Processing (Melt) Temp	428 to 500 °F	220 to 260 °C
Mold Temperature	86 to 140 °F	30 to 60 °C

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Notes

¹ 2.0 in/min (50 mm/min)

² 0.051 in/min (1.3 mm/min)

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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