

Technical Data Sheet



Polyflam RPP 1058X

Polypropylene
LyondellBasell Industries
Engineering Plastics

Product Description

PP Unfilled Flame Retardant PBDE-Free

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Flame Retardant

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	1.00	1.00 g/cm ³	ASTM D792
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	4500 psi	31.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	80 %	80 %	ASTM D638
Flexural Modulus ²	232000 psi	1600 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.84 ft·lb/in	45 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	203 °F	95.0 °C	
264 psi (1.8 MPa), Unannealed	126 °F	52.0 °C	
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating	V-2	V-2	UL 94
Additional Information	Nominal Value (English)	Nominal Value (SI)	Test Method
Filler Content	4.5 %	4.5 %	ASTM D5630

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 °F	82 °C
Drying Time	4.0 hr	4.0 hr
Rear Temperature	350 to 400 °F	177 to 204 °C
Middle Temperature	350 to 400 °F	177 to 204 °C
Front Temperature	350 to 425 °F	177 to 218 °C
Nozzle Temperature	350 to 425 °F	177 to 218 °C
Processing (Melt) Temp	350 to 425 °F	177 to 218 °C
Mold Temperature	90 to 150 °F	32 to 66 °C
Injection Rate	Slow-Moderate	Slow-Moderate
Back Pressure	< 100 psi	< 0.689 MPa
Cushion	0.250 to 0.500 in	6.35 to 12.7 mm

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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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