

Technical Data Sheet



Polyflam RPP 1058

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

Homopolymer polypropylene flame retardant with a V-2 flammability rating.

General

Material Status	• Commercial: Active
Availability	• North America
Features	• Flame Retardant
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.952	0.950 g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0 to 7.0 g/10 min	4.0 to 7.0 g/10 min	ASTM D1238
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength ¹ (Yield)	4350 psi	30.0 MPa	ASTM D638
Tensile Elongation ¹ (Break)	200 %	200 %	ASTM D638
Flexural Modulus ²	174000 psi	1200 MPa	ASTM D790
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	0.56 ft·lb/in	30 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	131 °F	55.0 °C	
RTI Elec (0.03 to 0.12 in (0.8 to 3.0 mm))	221 °F	105 °C	UL 746B
RTI Imp (0.03 to 0.12 in (0.8 to 3.0 mm))	221 °F	105 °C	UL 746B
RTI Str (0.03 to 0.12 in (0.8 to 3.0 mm))	221 °F	105 °C	UL 746B
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flame Rating			UL 94
0.030 in (0.75 mm), ALL	V-2	V-2	
0.06 in (1.5 mm), ALL	V-2	V-2	
0.12 in (3.0 mm), ALL	V-2	V-2	

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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