

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

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.