

Technical Data Sheet



Polyflam RPP 4230 MD 16V0

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

Product Description

30% glass fibre reinforced flame retardant polypropylene homopolymer compound free of halogens

General

Material Status	• Experimental: Active
Availability	• Europe
Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Features	• Flame Retardant • Halogen Free • Homopolymer
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PP GF30 FR(51)

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.32 g/cm ³	1.32 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.0 cm ³ /10min	5.0 cm ³ /10min	ISO 1133
Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	1.23E+6 psi	8500 MPa	ISO 527-1/1A/1
Tensile Stress (Break)	11600 psi	80.0 MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.6 %	2.6 %	ISO 527-2/1A/5
Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength (73°F (23°C))	3.8 ft·lb/in ²	8.0 kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength 73°F (23°C)	17 ft·lb/in ²	35 kJ/m ²	ISO 179/1eU
Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load 66 psi (0.45 MPa), Unannealed	322 °F	161 °C	ISO 75-2/B
Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Surface Resistivity	> 1.0E+15 ohms	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+13 ohms·m	> 1.0E+13 ohms·m	IEC 62631-3-1
Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Flammability Classification			IEC 60695-11-10, -20
0.06 in (1.6 mm)	V-0	V-0	
0.13 in (3.2 mm)	V-0	V-0	

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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