

Polyflam RPP 4230 MD 16V0 BLK

LyondellBasell Industries - Polypropylene

General Information

Product Description

Polyflam RPP 4230 MD 16V0 BLK is a 30% glass fibre reinforced flame retardant polypropylene homopolymer compound free of halogens.

General

Filler / Reinforcement	• Glass Fiber, 30% Filler by Weight
Additive	• Copper Stabilizer • Flame Retardant
Features	• Copper Contact Stabilized • Halogen Free • Homopolymer • Flame Retardant • High Strength
Appearance	• Black
Processing Method	• Injection Molding
Resin ID	• PP GF30 (FR51)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.32	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	5.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.23E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	11600	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	3.8	ft-lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	ft-lb/in ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	316	°F	ISO 75-2/Bf
Vicat Softening Temperature	322	°F	ISO 306/A50
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.06 in		V-0	
0.12 in		V-0	
Flammability Classification			IEC 60695-11-10, -20
0.06 in		V-0	
0.12 in		V-0	
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1430	°F	
0.12 in	1430	°F	

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Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Rear Temperature	356	°F
Middle Temperature	392	°F
Front Temperature	410	°F
Nozzle Temperature	428	°F
Processing (Melt) Temp	392 to 446	°F
Mold Temperature	104 to 176	°F
Injection Pressure	11600 to 17400	psi
Injection Rate	Slow-Moderate	
Holding Pressure	5800 to 13100	psi
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min
Cushion	< 0.197	in