

Polyflam RIPP 2000 NAT

LyondellBasell Industries - Polypropylene Copolymer

General Information

Product Description

Unfilled flame retardant PP-Copolymer grade, halogen free acc. DIN VDE 0472 part 815, fulfills french norm NF P 92 - 501/505 class M2

General

Additive	• Flame Retardant
Features	• Flame Retardant • Good Colorability • Halogen Free
Processing Method	• Injection Molding
Resin ID	• PP FR(53)

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	13	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	160000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3480	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.2	ft-lb/in ²	
73°F	6.2	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	22	ft-lb/in ²	
73°F	No Break		
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	172	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	127	°F	ISO 75-2/ Af
Vicat Softening Temperature			
--	147	°F	ISO 306/B50
--	286	°F	ISO 306/A50
Ball Pressure Test (248°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Imp			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
RTI Str			UL 746B
0.06 in	149	°F	
0.12 in	149	°F	
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112

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Flammability	Nominal Value	Unit	Test Method
Burning Rate ²			ISO 3795
0.0591 in	0.0	in/min	
0.118 in	0.0	in/min	
Flame Rating			UL 94
0.06 in	V-2		
0.12 in	V-2		
Flammability Classification			IEC 60695-11-10, -20
0.030 in	V-2		
0.06 in	V-2		
0.12 in	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.030 in	1760	°F	
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.030 in	1290	°F	
0.06 in	1560	°F	
0.12 in	1470	°F	
Oxygen Index	26	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	356 to 428	°F
Mold Temperature	104 to 176	°F
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min

Notes

¹ Typical properties: these are not to be construed as specifications.

² Self-Extinguishing