

Polyflam RPP 374ND CS1 NATURAL

LyondellBasell Industries - Polypropylene Homopolymer

General Information

Product Description

POLYFLAM RPP 374ND CS1 NATURAL is a 20% talc filled flame-retardant PP-homopolymer.

General

Filler / Reinforcement	• Talc, 20% Filler by Weight		
Additive	• Copper Stabilizer	• Flame Retardant	
Features	• Copper Contact Stabilized	• Flame Retardant	• Homopolymer
Processing Method	• Injection Molding		
Resin ID	• PP TD20 FR(17)		

Properties¹

Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	19	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	435000	psi	ISO 527-1/1A/1
Tensile Stress (Yield)	3050	psi	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-22°F	1.1	ft-lb/in ²	
73°F	1.2	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	4.0	ft-lb/in ²	
73°F	9.5	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	244	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	140	°F	ISO 75-2/af
Vicat Softening Temperature			
--	180	°F	ISO 306/B50
--	293	°F	ISO 306/A50
Ball Pressure Test (257°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.06 in	221	°F	
0.12 in	221	°F	
RTI Imp			UL 746B
0.06 in	221	°F	
0.12 in	221	°F	
RTI Str			UL 746B
0.06 in	221	°F	
0.12 in	221	°F	

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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
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ²			
0.0787 in	0.0	in/min	FMVSS 302
0.0787 in	0.0	in/min	ISO 3795
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	1290	°F	
0.12 in	1290	°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
Rear Temperature	356	°F
Middle Temperature	392	°F
Front Temperature	410	°F
Nozzle Temperature	428	°F
Processing (Melt) Temp	356 to 428	°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

Notes

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

² Self-Extinguishing