

Technical Data Sheet



Polyflam RIPP 374 ND CS1 GREY 64540 K3020

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

Product Description

20% talc filled flame-retardant PP-Copolymer; without PBDE

General

Filler / Reinforcement	• Talc, 20% Filler by Weight		
Features	• Copolymer	• Copper Contact Stabilized	• Flame Retardant
UL File Number	• E86615		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PP TD20 FR(17)		

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density	1.44 g/cm ³	1.44 g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 Kg)	12 cm ³ /10min	12 cm ³ /10min	ISO 1133

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Modulus	319000 psi	2200 MPa	ISO 527-1/1A/1
Tensile Stress (Yield)	2760 psi	19.0 MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	1.6 %	1.6 %	ISO 527-2/1A/50

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Unnotched Impact Strength 73°F (23°C)	19 ft·lb/in ²	40 kJ/m ²	ISO 179/1eU

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Vicat Softening Temperature	289 °F	143 °C	ISO 306/A50
Ball Pressure Test (212°F (100°C))	Pass	Pass	IEC 60695-10-2
RTI Elec			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	
RTI Imp			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	
RTI Str			UL 746B
0.06 In (1.5 Mm)	122 °F	50.0 °C	
0.12 In (3.0 Mm)	122 °F	50.0 °C	

Electrical	Nominal Value (English)	Nominal Value (SI)	Test Method
Comparative Tracking Index	600 V	600 V	IEC 60112

Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Burning Rate			ISO 3795
0.0591 In (1.50 Mm), Self-extinguishing	0.0 in/min	0.0 mm/min	
0.118 In (3.00 Mm), Self-extinguishing	0.0 in/min	0.0 mm/min	
Flame Rating			
0.031 In (0.8 Mm)	V-0	V-0	UL 94
0.06 In (1.5 Mm)	V-0	V-0	UL 94 IEC 60695-11-10, -20
0.12 In (3.0 Mm)	V-0	V-0	UL 94 IEC 60695-11-10, -20
0.03 In (0.8 Mm)	V-0	V-0	IEC 60695-11-10, -20

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Flammability	Nominal Value (English)	Nominal Value (SI)	Test Method
Glow Wire Flammability Index			IEC 60695-2-12
0.06 In (1.5 Mm)	1760 °F	960 °C	
0.12 In (3.0 Mm)	1760 °F	960 °C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 In (1.5 Mm)	1380 °F	750 °C	
0.12 In (3.0 Mm)	1380 °F	750 °C	
Oxygen Index	27 %	27 %	ISO 4589-2

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Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	158 to 176 °F	70 to 80 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Processing (Melt) Temp	356 to 428 °F	180 to 220 °C
Mold Temperature	104 to 176 °F	40 to 80 °C

Injection Notes

Mould surface contacting melt should
be of non-corrosive steel (content of chrome > 12%)

Notes

These are typical property values not to be construed as specification limits.