

POLYFLAM® RPP 374 ND CS1

Polypropylene Homopolymer

A. Schulman Europe

Message:

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

General Information			
UL YellowCard	E86615-252223	E188844-102210985	
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Homopolymer		
	Copper contact stability		
	Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP FR()		
Physical	Nominal Value	Unit	Test Method
Density	1.35	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	19.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	21.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.3	kJ/m²	ISO 179/1eA
23°C	2.5	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	8.5	kJ/m²	ISO 179/1eU
23°C	10	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	118	°C	ISO 75-2/Bf
1.8 MPa, not annealed	84.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	145	°C	ISO 306/A50
--	82.0	°C	ISO 306/B50
Ball Pressure Test (125°C)	Pass		IEC 60695-10-2

RTI Elec			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
RTI Imp			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
RTI			UL 746
1.50 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms · cm	IEC 60093
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate			ISO 3795
1.50mm, automatic fire extinguishing	0.0	mm/min	ISO 3795
3.00mm, automatic fire extinguishing	0.0	mm/min	ISO 3795
Flame Rating			UL 94, IEC 60695-11-10, -20
1.50 mm	V-0		UL 94, IEC 60695-11-10, -20
3.00 mm	V-0		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
1.50 mm	960	°C	IEC 60695-2-12
3.00 mm	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13
Oxygen Index	26	%	ISO 4589-2
Additional Information			
1.)			
Not for use in food contact applications2.)			
Not for use in medical or pharmaceutical applications			
Injection	Nominal Value	Unit	
Drying Temperature	70.0 - 80.0	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	180	°C	
Middle Temperature	200	°C	
Front Temperature	210	°C	
Nozzle Temperature	220	°C	
Processing (Melt) Temp	180 - 220	°C	
Mold Temperature	40.0 - 80.0	°C	
Injection Pressure	80.0 - 120	MPa	

Injection Rate	Slow-Moderate	
Holding Pressure	40.0 - 90.0	MPa
Back Pressure	5.00 - 10.0	MPa
Cushion	< 5.00	mm
Screw Speed		mm/sec

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