

POLYFLAM® RPP 1275

Polypropylene Homopolymer

A. Schulman Europe

Message:

20% talc filled flame retardant PP homopolymer, impact modified, without PBDE

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Impact modification		
	Homopolymer		
	Halogenated		
	Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Resin ID (ISO 1043)	PP FR (17+72)		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	8.00	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	26.2	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	2.5	%	ISO 527-2/1A/50
Flexural Modulus ¹	3300	MPa	ISO 178
Flexural Stress ²			ISO 178
3.5% strain	45.0	MPa	ISO 178
4.0% strain	45.0	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.0	kJ/m ²	ISO 179/1eA
23°C	2.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	10	kJ/m ²	ISO 179/1eU
23°C	25	kJ/m ²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	115	°C	ISO 75-2/Bf
1.8 MPa, not annealed	65.0	°C	ISO 75-2/ Af
Vicat Softening Temperature			

--	150	°C	ISO 306/A50
--	85.0	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94, IEC 60695-11-10, -20
0.800 mm	V-0		UL 94, IEC 60695-11-10, -20
1.60 mm	V-0		UL 94, IEC 60695-11-10, -20
3.20 mm	V-0		UL 94, IEC 60695-11-10, -20
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	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
0.750 mm	700	°C	IEC 60695-2-13
1.50 mm	700	°C	IEC 60695-2-13
3.00 mm	700	°C	IEC 60695-2-13
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
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 - 80.0	MPa
Back Pressure	5.00 - 10.0	MPa

NOTE	
1.	2.0 mm/min
2.	2.0 mm/min

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