

POLYFLAM® RPP 4225 CS1

Polypropylene Homopolymer

A. Schulman Europe

Message:

25% glass fibre reinforced flame-retardant PP-Homopolymer; halogen free

General Information			
UL YellowCard	E86615-100851884	E188844-102210987	
Filler / Reinforcement	Glass fiber reinforced material, 25% filler by weight		
Features	Low density		
	High strength		
	Homopolymer		
	Phosphorus content, low (to none)		
	Copper contact stability		
	Halogen-free		
	Flame retardancy		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.26	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	4.00	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	7300	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	80.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.0	%	ISO 527-2/1A/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	8.5	kJ/m²	ISO 179/1eA
23°C	9.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	33	kJ/m²	ISO 179/1eU
23°C	38	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	157	°C	ISO 75-2/Bf
1.8 MPa, not annealed	144	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	164	°C	ISO 306/A50
--	137	°C	ISO 306/B50

Ball Pressure Test (155°C)	Pass		IEC 60695-10-2
Electrical	Nominal Value	Unit	Test Method
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
0.800 mm	V-2		UL 94, IEC 60695-11-10, -20
1.50 mm	V-0		UL 94, IEC 60695-11-10, -20
	V-0		
3.00 mm	5VA		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	725	°C	IEC 60695-2-13
3.00 mm	725	°C	IEC 60695-2-13
Oxygen Index	44	%	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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