

POLYFLAM® RPP 2000 S

Polypropylene Homopolymer

A. Schulman Europe

Message:

Flame retardant polypropylene homopolymer compound, UV stabilized for outdoor applications (i.e. stadium seats), free of halogens according to DIN VDE 0472 part 815

General Information			
UL YellowCard	E86615-100686984	E188844-102210982	
Additive	UV Stabilizer		
Features	Flame Retardant		
	Halogen Free		
	Homopolymer		
Uses	Outdoor Applications		
	Seats		
Agency Ratings	DIN VDE 0472 Part 815		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	0.910	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	7.00	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.16	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	32.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	11	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	94.0	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	49.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	151	°C	ISO 306/A120
--	90.0	°C	ISO 306/B50
Ball Pressure Test (140°C)	Pass		IEC 60695-10-2
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
Flammability Classification			IEC 60695-11-10, -20
0.800 mm	V-2		
1.60 mm	V-2		
Glow Wire Flammability Index			IEC 60695-2-12
0.750 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	775	°C	
1.50 mm	775	°C	
3.00 mm	775	°C	
Oxygen Index	26	%	ISO 4589-2

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