

POLYFLAM® RPP 500 D

Polypropylene Homopolymer

A. Schulman Europe

Message:

Flame retardant PP-homopolymer - standard grade without PBDE

General Information			
UL YellowCard	E86615-252228	E188844-102210989	
Additive	Flame Retardant		
Features	Flame Retardant		
	Homopolymer		
Processing Method	Injection Molding		
Part Marking Code (ISO 11469)	>PP FR()<		
Physical	Nominal Value	Unit	Test Method
Density	0.940	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.13	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Ball Indentation Hardness (H 358/30)	65.0	MPa	ISO 2039-1
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	28.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	10	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	2.3	kJ/m²	
23°C	5.0	kJ/m²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	19	kJ/m²	
23°C	No Break		
Notched Izod Impact (Area) (23°C)	4.00	kJ/m²	ASTM D256
Notched Izod Impact Strength			ISO 180/1A
-40°C	2.5	kJ/m²	
23°C	4.0	kJ/m²	
Unnotched Izod Impact Strength			ISO 180/1U
-40°C	15	kJ/m²	
23°C	No Break		
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature			
0.45 MPa, Unannealed	120	°C	ISO 75-2/Bf
1.8 MPa, Unannealed	85.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	149	°C	ISO 306/A120
--	94.0	°C	ISO 306/B50
Ball Pressure Test (130°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
0.750 mm	V-2		
1.50 mm	V-2		
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature			IEC 60695-2-13
0.750 mm	750	°C	
1.50 mm	725	°C	
3.00 mm	725	°C	
Oxygen Index	27	%	ISO 4589-2

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