

POLYFLAM® RIPP 2000 S

Polypropylene Copolymer

A. Schulman Europe

Message:

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

General Information			
UL YellowCard	E86615-100744728	E188844-102210977	
Additive	UV stabilizer		
Features	Copolymer		
	Halogen-free		
	Flame retardancy		
Uses	Outdoor application		
	Seat		
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)	13.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1100	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	24.0	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	2.5	kJ/m²	ISO 179/1eA
23°C	13	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	46	kJ/m²	ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	78.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	53.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	141	°C	ISO 306/A120
--	64.0	°C	ISO 306/B50
Ball Pressure Test (120°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		IEC 60695-11-10, -20
1.60 mm	V-2		IEC 60695-11-10, -20
3.20 mm	V-2		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
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	80.0	°C
Drying Time	4.0	hr
Rear Temperature	180	°C
Middle Temperature	190	°C
Front Temperature	200	°C
Nozzle Temperature	210	°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	30.0 - 70.0	MPa
Back Pressure	5.00 - 10.0	MPa

Injection instructions

Screw Speed max. 0,25 m/sCushion small

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