

POLYFLAM® RPP 490 CS1

Polypropylene Homopolymer

A. Schulman Europe

Message:

Flame-retardant PP-homopolymer; halogen free

General Information			
UL YellowCard	E344659-101038376	E86615-509045	E188844-102210988
Features	Homopolymer		
	Phosphorus content, low (to none)		
	Copper contact stability		
	Halogen-free		
	Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.06	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (230°C/2.16 kg)	10.0	cm³/10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	26.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	3.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	1.5	kJ/m²	ISO 179/1eA
23°C	2.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	10	kJ/m²	ISO 179/1eU
23°C	20	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	105	°C	ISO 75-2/Bf
1.8 MPa, not annealed	60.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	151	°C	ISO 306/A50
--	98.0	°C	ISO 306/B50
Ball Pressure Test (140°C)	Pass		IEC 60695-10-2
RTI Elec			UL 746

1.50 mm	65.0	°C	UL 746
3.00 mm	65.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	65.0	°C	UL 746
3.00 mm	65.0	°C	UL 746
RTI			UL 746
1.50 mm	65.0	°C	UL 746
3.00 mm	65.0	°C	UL 746
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
1.50 mm	V-0		UL 94, IEC 60695-11-10, -20
3.00 mm	V-0		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	750	°C	IEC 60695-2-13
3.00 mm	750	°C	IEC 60695-2-13
Oxygen Index	37	%	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

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

