

POLYFLAM® RPC 40400

Polycarbonate

A. Schulman Europe

Message:

Flame retardant PC; halogen free according to DIN VDE 0472 part 815

General Information			
Features	Halogen-free		
	Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.18	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (260°C/5.0 kg)	25.0	cm ³ /10min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2400	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	60.0	MPa	ISO 527-2/1A/50
Tensile Strain (Yield)	5.0	%	ISO 527-2/1A/50
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	20	kJ/m ²	ISO 179/1eA
23°C	60	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	No Break		ISO 179/1eU
23°C	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, not annealed	103	°C	ISO 75-2/Bf
1.8 MPa, not annealed	95.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	115	°C	ISO 306/A50
--	110	°C	ISO 306/B50
Ball Pressure Test (105°C)	Pass		IEC 60695-10-2
RTI Elec			UL 746
1.50 mm	80.0	°C	UL 746
3.00 mm	80.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	80.0	°C	UL 746

3.00 mm	80.0	°C	UL 746
RTI			UL 746
1.50 mm	80.0	°C	UL 746
3.00 mm	80.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	600	V	IEC 60112
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 3		UL 746
3.00 mm	PLC 2		UL 746
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
1.50 mm	V-0		UL 94
3.00 mm	V-0		UL 94
	V-0		
3.50 mm	5VA		UL 94
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	850	°C	IEC 60695-2-13
3.00 mm	775	°C	IEC 60695-2-13

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 - 6.0	hr
Processing (Melt) Temp	260 - 270	°C
Mold Temperature	50.0 - 80.0	°C
Injection Rate	Moderate-Fast	
Back Pressure	5.00 - 10.0	MPa

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