POLYFLAM® RABS 90950 UV5

Acrylonitrile Butadiene Styrene

A. Schulman Europe

Message:

20% glass fibre reinforced ABS grade without PBDE

General Information			
UL YellowCard	E86615-483724		
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	High strength Good UV resistance Good processing stability Flame retardancy		
UL File Number	E86615		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Density	1.36	g/cm³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	16.0	cm³/10min	ISO 1133
Water Absorption (23°C, 24 hr)	0.80	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	6000	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	%	ISO 527-2/1A/5
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-30°C	5.4	kJ/m²	ISO 179/1eA
23°C	6.0	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength			ISO 179/1eU
-30°C	19	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	98.0	°C	ISO 75-2/Bf
1.8 MPa, not annealed	91.0	°C	ISO 75-2/Af
Vicat Softening Temperature			
--	106	°C	ISO 306/A50
--	94.0	°C	ISO 306/B50
Ball Pressure Test (90°C)	Pass		IEC 60695-10-2

RTI Elec			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI Imp			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
RTI			UL 746
1.50 mm	60.0	°C	UL 746
3.00 mm	60.0	°C	UL 746
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	550	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	725	°C	IEC 60695-2-13
3.00 mm	750	°C	IEC 60695-2-13
Oxygen Index	32	%	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	220	°C
Middle Temperature	230	°C
Front Temperature	240	°C
Nozzle Temperature	240	°C
Processing (Melt) Temp	220 - 240	°C
Mold Temperature	40.0 - 60.0	°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

Recommended distributors for this material

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