

Polyflam RABS 90950 UV5 GRY69955

LyondellBasell Industries - Acrylonitrile Butadiene Styrene

General Information

Product Description

20% glass fibre reinforced ABS grade without PBDE

General

Filler / Reinforcement	• Glass Fiber, 20% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • High Strength • Good Processability • UV Resistant
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183/A
Melt Volume-Flow Rate (MVR) (220°C/10.0 kg)	16	cm ³ /10min	ISO 1133
Water Absorption (Equilibrium, 73°F, 50% RH)	0.80	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	870000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	10900	psi	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
-22°F	2.6	ft-lb/in ²	
73°F	2.9	ft-lb/in ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-22°F	9.0	ft-lb/in ²	
73°F	9.5	ft-lb/in ²	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	208	°F	ISO 75-2/Bf
Deflection Temperature Under Load 264 psi, Unannealed	196	°F	ISO 75-2/Af
Vicat Softening Temperature			
--	201	°F	ISO 306/B50
--	223	°F	ISO 306/A50
Ball Pressure Test (194°F)	Pass		IEC 60695-10-2
RTI Elec			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
RTI Imp			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	
RTI Str			UL 746B
0.06 in	140	°F	
0.12 in	140	°F	

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Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+13	ohms·m	IEC 62631-3-1
Comparative Tracking Index	550	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Burning Rate ²			
0.0787 in	0.0	in/min	ISO 3795
0.0787 in	0.0	in/min	FMVSS 302
Flame Rating			UL 94
0.06 in	V-0		
0.12 in	V-0		
Flammability Classification			IEC 60695-11-10, -20
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.06 in	1760	°F	
0.12 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.06 in	1340	°F	
0.12 in	1340	°F	
Oxygen Index	32	%	ISO 4589-2

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	158 to 176	°F
Drying Time	2.0 to 4.0	hr
Processing (Melt) Temp	428 to 464	°F
Mold Temperature	104 to 140	°F
Injection Rate	Slow-Moderate	
Back Pressure	725 to 1450	psi
Screw Speed	< 709	in/min