Radiflam® A RV250 AF 875 BR

Radici Group High Performance Polymers - Polyamide 66

General Information

Product Description

PA66 flame retardant injection moulding grade with red phosphorus. 25% glass fiber reinforced. Improved impact properties. Natural red brick colour.

Suitable for parts requiring fire retardancy along with medium stiffness and good mechanical resistance. Rated V-0 at 0.75 mm according to UL-94.

General			
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Impact Resistance	• Medium Stiffness
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Red		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-GF25 FR(52+72)		

Properties [1]

Physical	Dry	Conditioned	Unit	Test Method
Density	1.37	--	g/cm³	ISO 1183
Molding Shrinkage [2]				ISO 294-4
Across Flow	1.2	--	%	
Flow	0.50	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	5.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.2	--	%	
Mechanical	**Dry**	**Conditioned**	**Unit**	**Test Method**
Tensile Modulus	1.13E+6	747000	psi	ISO 527-1/1A/1
Tensile Stress (Break)	17400	13800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	3.2	3.5	%	ISO 527-2/1A/5
Flexural Modulus [3]	1.00E+6	--	psi	ISO 178
Flexural Stress [3]	26800	--	psi	ISO 178
Impact	**Dry**	**Conditioned**	**Unit**	**Test Method**
Charpy Notched Impact Strength				ISO 179/1eA
-22°F	4.3	--	ft·lb/in²	
73°F	5.7	7.6	ft·lb/in²	
Charpy Unnotched Impact Strength				ISO 179/1eU
-22°F	32	--	ft·lb/in²	
73°F	31	35	ft·lb/in²	
Thermal	**Dry**	**Conditioned**	**Unit**	**Test Method**
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	446	--	°F	
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature [4]	500	--	°F	ISO 11357-3

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Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity (500 V)	1.0E+12	1.0E+10	ohms	IEC 62631-3-2
Volume Resistivity (500 V)	1.0E+13	1.0E+11	ohms·m	IEC 62631-3-1
Comparative Tracking Index				IEC 60112
Solution A	500	--	V	
Flammability	**Dry**	**Conditioned**	**Unit**	**Test Method**
Flame Rating				UL 94
0.031 in	V-0	--		
0.06 in	5VA	--		
Glow Wire Flammability Index				IEC 60695-2-12
0.04 in	1760	--	°F	
0.08 in	1760	--	°F	
Glow Wire Ignition Temperature				IEC 60695-2-13
0.04 in	1340	--	°F	
0.08 in	1380	--	°F	

Processing Information

Injection	Dry	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F
Suggested Max Moisture	0.10	%
Processing (Melt) Temp	536 to 572	°F
Mold Temperature	176 to 212	°F
Injection Rate	Moderate-Fast	

Notes

[1] Typical properties: these are not to be construed as specifications.

[2] 295°C Melt Temperature, 80°C Mold Temperature, 30 MPa Cavity Pressure

[3] 0.079 in/min

[4] 10°C/min