

Radiflam® A RV250 FR 100 NT

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 flame retardant injection moulding grade, halogen and phosphorus free. 25% glass fiber reinforced. Natural colour.

Suitable for parts requiring fire retardancy along with medium stiffness and good mechanical resistance. Low smoke toxicity and optical density. Rated V-0 according to UL-94.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight		
Additive	• Flame Retardant		
Features	• Flame Retardant • Halogen Free	• Low (to None) Phosphorus Content • Medium Stiffness	
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Natural Color		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66-GF25 FR(61+72)		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.74	--	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption (Saturation, 73°F, 0.0787 in)	2.5	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.1	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.12E+6	1.28E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	22500	13800	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.1	2.3	%	ISO 527-2/1A/5
Flexural Modulus ²	2.03E+6	1.15E+6	psi	ISO 178
Flexural Stress ²	34800	18900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	2.4	3.8	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	29	ft·lb/in ²	ISO 179/1eU
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature ³	500	--	°F	ISO 11357-3
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
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.06 in)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
0.04 in	1760	--	°F	
0.08 in	1760	--	°F	
Oxygen Index	45	--	%	ISO 4589-2



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	0.15 %
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 0.079 in/min

³ 10°C/min

