

Radiflam® A RV250 HFG1 333 BK

Radici Group High Performance Polymers - *Polyamide 66*

General Information

Product Description

PA66 flame retardant for injection molding, halogen and red phosphorus free with improved GWIT performances. 25% glass fiber reinforced. Black colour.

Suitable for parts requiring flame retardancy along with medium stiffness and good mechanical resistance. Good electrical insulating properties. 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	• Electrically Insulating • Flame Retardant	• Halogen Free • Low (to None) Phosphorus Content	• Medium Stiffness
Agency Ratings	• EU 2011/65/EC		
RoHS Compliance	• RoHS Compliant		
Appearance	• Black		
Processing Method	• Injection Molding		
Resin ID (ISO 1043)	• PA66 GF25 FR(40)		

Properties ¹

Physical	Dry	Conditioned	Unit	Test Method
Density	1.40	--	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)	4.7	--	%	ISO 62
Water Absorption (Equilibrium, 73°F, 0.0787 in, 50% RH)	1.4	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	1.42E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	20300	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	2.6	--	%	ISO 527-2/1A/5
Flexural Modulus ²	1.38E+6	--	psi	ISO 178
Flexural Stress ²	30500	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	--	ft·lb/in ²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	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
Comparative Tracking Index (Solution A)	550	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate (0.118 in)	0.0	--	in/min	ISO 3795
Flame Rating				UL 94
0.016 in	V-0	--		



0.031 in	V-0	--	
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
0.030 in	1470	--	°F
0.06 in	1470	--	°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 0.079 in/min			
³ 10°C/min			

