

# 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

Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Flame Retardant
Features	<ul style="list-style-type: none"> <li>• Flame Retardant</li> <li>• Halogen Free</li> <li>• Low (to None) Phosphorus Content</li> <li>• Medium Stiffness</li> </ul>
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 <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.74	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow	0.80	--	%	
Flow	0.40	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	2.5	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.1	--	%	
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 <sup>2</sup>	2.03E+6	1.15E+6	psi	ISO 178
Flexural Stress <sup>2</sup>	34800	18900	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	2.4	3.8	ft-lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	24	29	ft-lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Melting Temperature <sup>3</sup>	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

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Electrical	Dry	Conditioned	Unit	Test Method
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

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 0.079 in/min

<sup>3</sup> 10°C/min