

# Radiflam® A RV330K AE 1700 NT

## Radici Group High Performance Polymers - Polyamide 66

### General Information

#### Product Description

PA66 33% glass fibre reinforced, flame retardant, injection moulding grade. Natural colour.

Suitable for parts requiring fire retardancy with high stiffness and good mechanical resistance. Good electrical insulating properties. Rated V-0 according to UL-94.

#### General

Filler / Reinforcement	• Glass Fiber, 33% Filler by Weight
Additive	• Flame Retardant
Features	• Electrically Insulating • Flame Retardant • High Stiffness
Agency Ratings	• EU 2011/65/EC
RoHS Compliance	• RoHS Compliant
Appearance	• Natural Color
Processing Method	• Injection Molding
Resin ID (ISO 1043)	• PA66-GF33 FR(17+72)

### Properties <sup>1</sup>

Physical	Dry	Conditioned	Unit	Test Method
Density	1.70	--	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>				ISO 294-4
Across Flow	0.90	--	%	
Flow	0.30	--	%	
Water Absorption				ISO 62
Saturation, 73°F, 0.0787 in	4.0	--	%	
Water Absorption				ISO 62
Equilibrium, 73°F, 0.0787 in, 50% RH	1.0	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2.13E+6	--	psi	ISO 527-1/1A/1
Tensile Stress (Break)	24700	--	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.8	--	%	ISO 527-2/1A/5
Flexural Modulus <sup>3</sup>	1.99E+6	--	psi	ISO 178
Flexural Stress <sup>3</sup>	34800	--	psi	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
73°F	4.8	--	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength				ISO 179/1eU
73°F	23	--	ft·lb/in <sup>2</sup>	
Thermal	Dry	Conditioned	Unit	Test Method
Deflection Temperature Under Load				ISO 75-2/Af
264 psi, Unannealed	437	--	°F	
Vicat Softening Temperature	464	--	°F	ISO 306/B50
Melting Temperature <sup>4</sup>	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
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.031 in)	V-0	--		UL 94

### 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 194	°F
Injection Rate	Moderate-Fast	

### Notes

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

<sup>2</sup> 280°C Melt Temperature, 80°C Mold Temperature, 60 MPa Cavity Pressure

<sup>3</sup> 0.079 in/min

<sup>4</sup> 10°C/min