

# Radiflam® A RV250 AE 3733 BK

## Radici Group High Performance Polymers - Polyamide 66

### General Information

#### Product Description

PA66 flame retardant injection moulding grade. 25% glass fibre reinforced. Black colour.

Suitable for parts requiring fire retardancy, medium stiffness and good mechanical resistance. Rated V-0 according to UL-94.

#### General

Filler / Reinforcement	• Glass Fiber, 25% Filler by Weight
Additive	• Flame Retardant
Features	• Flame Retardant • 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(17)

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

Physical	Nominal Value	Unit	Test Method
Density	1.59	g/cm <sup>3</sup>	ISO 1183
Water Absorption (Saturation, 73°F, 0.0787 in)	3.7	%	ISO 62
Water Absorption Equilibrium, 73°F, 0.0787 in, 50% RH	0.90	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1.57E+6	psi	ISO 527-1/1A/1
Tensile Stress (Break)	21300	psi	ISO 527-2/1A/5
Tensile Strain (Break)	1.9	%	ISO 527-2/1A/5
Flexural Modulus <sup>2</sup>	1.43E+6	psi	ISO 178
Flexural Stress <sup>2</sup>	30700	psi	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.8	ft·lb/in <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (73°F)	3.5	ft·lb/in <sup>2</sup>	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Melting Temperature <sup>3</sup>	500	°F	ISO 11357-3
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.016 in)	V-0		UL 94
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	

### Processing Information

Injection	Nominal Value	Unit
Drying Temperature - Desiccant Dryer	176	°F
Drying Time - Desiccant Dryer	2.0 to 4.0	hr
Dew Point - Desiccant Dryer	< -4	°F

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Injection	Nominal Value	Unit
Suggested Max Moisture	0.10	%
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