

# RADIFLAM A RV500 AF 375 NER 4849

Material code      Colour code

PROVISIONAL

## DESCRIPTION

PA66 flame retardant injection moulding grade with red phosphorus. 50% glass fiber reinforced. Improved impact properties. Black colour.

Suitable for parts requiring fire retardancy along with high stiffness and mechanical resistance. Rated V-0 at 0.75 mm according to UL-94.

ISO 1043 : PA66 GF50 FR(52)

## MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.10%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more.

Avoid excessive shear rates and high thermal stresses for better processing. Special care must be taken to avoid moisture absorption and contamination with other polymers when adding regrind material. Colour variation and mechanical properties reduction may occur and should always be carefully monitored.

### Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
280 ÷ 300 °C	80 ÷ 100 °C	Medium-high

## PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2002/95/CE and following amendments



## Technical data sheet

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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>Physical Properties</b>				
Density	ISO 1183	Kg/m <sup>3</sup>	1610	
<b>Mechanical Properties</b>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	17300
Stress at Break	5mm/min	ISO 527-2/1A	MPa	210
Strain at Break	5mm/min	ISO 527-2/1A	%	2.5
Flexural Modulus	2mm/min	ISO 178	MPa	16200
Flexural Strength	2mm/min	ISO 178	MPa	330
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	85
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m <sup>2</sup>	14
<b>Thermal Properties</b>				
Melting Temperature	10°C/min	ISO 11357-1-3	°C	260
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	250
<b>Flammability Properties</b>				
Flammability	0.8mm	UL 94	class	V0
Glow Wire Flammability Index	1mm / 2mm	IEC 60695-2-1/2	°C/mm	960 / 960
Glow Wire Ignition Temperature	1mm / 2mm	IEC 60695-2-1/3	°C/mm	750 / 775
Automotive interior flammability	Burn rate	FMVSS302	mm/min	0
<b>Electrical Properties</b>				
Volume resistivity	500V	IEC 60093	ohm · m	1 E+13 1 E+11
Surface resistivity	500V	IEC 60093	ohm	1 E+12 1 E+10
Comparative Tracking Index	Sol.A	IEC 60112	V	500

\*DAM = Dry As Moulded state \*\*Cond = Conditioned state similar to ISO 1110 \*\*\*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

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