

# RADIFLAM A RV300 HF 339 NER

Material code      Colour code

## DESCRIPTION

PA66 flame retardant injection moulding grade. Halogen and phosphorus free. Deep black colour.

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

ISO 1043 : PA66 GF30 FR(40+72)

## 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:
275 ÷ 290 °C	80 ÷ 90 °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>	1410	
<b>Mechanical Properties</b>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10700    8800
Stress at Break	5mm/min	ISO 527-2/1A	MPa	155      120
Strain at Break	5mm/min	ISO 527-2/1A	%	2.7      3
Flexural Modulus	2mm/min	ISO 178	MPa	9800
Flexural Strength	2mm/min	ISO 178	MPa	240
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	65
Charpy Impact Strength	-30°C	ISO 179/1 eU	KJ/m <sup>2</sup>	70
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m <sup>2</sup>	10      12
Charpy Notched Impact Strength	-30°C	ISO 179/1 eA	KJ/m <sup>2</sup>	7
<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	220
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	255
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	240
<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	725 / 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	550

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

