

RADIFLAM A RV300 HF 9293 GY

DESCRIPTION

PA66 flame retardant injection moulding grade, 30% glass fibre reinforced. Halogen and red phosphorus free, improved fluidity. Electrical light grey 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)

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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.

Injection Molding Processing Parameters

Melt Temperature
275 - 290°C

Mold Temperature
80 - 90°C

Injection Speed
medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
Underwriters Laboratories Inc. certified material www.ul.com
ROHS compliant 2011/65/EU and following amendments



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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1440	
Moulding shrinkage - Parallel / Normal	280/80/60 [1]	ISO 294-4	%	0.3 / 0.9	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	4.3	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	1.3	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10400	8800
Stress at Break	5mm/min	ISO 527-2/1A	MPa	135	105
Strain at Break	5mm/min	ISO 527-2/1A	%	2.3	2.9
Flexural Modulus	2mm/min	ISO 178	MPa	10300	
Flexural Strength	2mm/min	ISO 178	MPa	210	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	50	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	8	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	260	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	240	
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	255	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	V-0	
Glow Wire Flammability Index	1mm	IEC 60695-2-12	°C	960	
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C	960	
Glow Wire Ignition Temperature	2mm	IEC 60695-2-13	°C	775	
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0	
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10
Comparative Tracking Index	Sol.A	IEC 60112	V	600	

*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110

1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

