RADILON A RV300HRG 3900 BK

PROVISIONAL

DESCRIPTION

PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized. Superior performance in contact with glycol and aggressive coolants. Deep black colour.

Suitable for parts requiring high stiffness and good mechanical resistance. Particularly fit for thermostat housing, cooling circuit inlet/outlet pipes for automotive, radiator end tank.

ISO 1043: PA66-T GF30

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

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 0.15%. Typical conditions with a desiccant drier: temperature 80 ° C, dew point -20 ° C or below, time 2-4 h or more. 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	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 2011/65/UE and following amendments

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PROPERTY		STANDARD	UNIT	VALUE DAM*	VALUE Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1370	
Water Absorption, immersion at 23°C	2mm	ISO 62	%		6.5
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%		1.5
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	9900	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	200	
Strain at Break	5mm/min	ISO 527-2/1A	%	3.6	
Flexural Modulus	2mm/min	ISO 178	MPa	9000	
Flexural Strength	2mm/min	ISO 178	MPa	295	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	90	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	14	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C		260
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C		240
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C		250
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class		HB
Glow Wire Flammability Index	2mm	IEC 60695-2-1/2	°C		700
Automotive Interior Flammability	3mm	ISO 3795	mm/min		0
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 60093	Ohm	1E12	1E10

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