

RADILON A RV500K 990 GRI

Material code Colour code

DESCRIPTION

PA66 50% glass fiber reinforced injection moulding grade, low friction. Heat stabilized. Natural grey colour.

Suitable for parts requiring low friction, very high stiffness and high mechanical resistance. Good resistance to heat ageing.

ISO 1043 : PA66-T GF50

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.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
290 ÷ 305 °C	80 ÷ 100 °C	Medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet



Underwriters Laboratories Inc. certified material. File number: E116324 www.ul.com

RoHS compliant 2002/95/CE and following amendments

Technical data sheet

RADILON A RV500K 990 GRI

Material code Colour code

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
Physical Properties				
Density	ISO 1183	Kg/m ³	1590	
Moisture absorption 23°C – 50%RH	2mm thk ISO 62	%	1.1	
Water absorption, immersion at 23°C	2mm thk ISO 62	%	4.6	
Mechanical Properties				
Tensile Modulus	1mm/min ISO 527-2/1A	MPa	17300	
Stress at Break	5mm/min ISO 527-2/1A	MPa	220	
Strain at Break	5mm/min ISO 527-2/1A	%	2.8	
Flexural Modulus	2mm/min ISO 178	MPa	16600	
Flexural Strength	2mm/min ISO 178	MPa	350	
Charpy Impact Strength	+23°C ISO 179/1 eU	KJ/m ²	85	
Charpy Notched Impact Strength	+23°C ISO 179/1 eA	KJ/m ²	12	
Thermal Properties				
Melting Temperature	10°C/min ISO 11357-1-3	°C	260	
Heat Deflection Temperature	1.8 MPa ISO 75/2 A f	°C	245	
Vicat Softening Temperature	50°C/h ISO 306/B50 50N	°C	250	
Flammability Properties				
Flammability	0.8mm UL 94	class	HB	
Glow Wire Flammability Index	2mm IEC 60695-2-1/2	°C/mm	700	
Automotive interior flammability	Burn rate FMVSS302	mm/min	0	
Electrical Properties				
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]

Issued: 06/09/2011

www.radicigroup.com/plastics – info.plastics@radicigroup.com

The information provided in this documentation corresponds to our knowledge on the subject at the date of its publication. This information may be subject to revision as new knowledge and experience become available. The data provided reflects the average values of the properties measured over an adequate number of different production cycles and relates only to the designated material; this data may not be valid for such material used in combination with any other materials or additives or in any process, unless expressly indicated otherwise. The data provided should not be used to establish specification limits nor used alone as the basis of design; it is not intended to substitute for any testing you may need to conduct to determine for yourself the suitability of a specific material for your particular purposes. Since Radici Plastics cannot anticipate all variations in actual end-use conditions Radici Plastics makes no warranties and assumes no liability in connection with any use of this information. Nothing in this publication is to be considered as a license to operate under or a recommendation to infringe any patent rights.