

RADILON S RV350RG 1900 NT

PRELIMINARY

DESCRIPTION

PA6 35% glass fibre reinforced injection moulding grade. Heat stabilized, high hydrolysis resistance. Natural colour.

Suitable for parts requiring high stiffness and good mechanical resistance. Particularly fit to work in contact with automotive cooling circuit liquids.

ISO 1043: PA6-GF35

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

THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE

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
240 - 280°C

Mold Temperature
80 - 90°C

Injection Speed
medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
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	1410	
Moulding shrinkage - Parallel / Normal	280/90/60 [1]		ISO 294-4	%	0.3 / 0.8	
Water Absorption, immersion at 23°C	2mm		ISO 62	%	6.4	
Moisture Absorption 23°C - 50%RH	2mm		ISO 62	%	1.8	
MECHANICAL PROPERTIES						
Tensile Modulus	1mm/min		ISO 527-2/1A	MPa	11200	
Stress at Break	5mm/min		ISO 527-2/1A	MPa	195	
Strain at Break	5mm/min		ISO 527-2/1A	%	3.9	
Flexural Modulus	2mm/min		ISO 178	MPa	10500	
Flexural Strength	2mm/min		ISO 178	MPa	300	
Charpy Impact Strength	+23°C		ISO 179/1eU	kJ/m²	110	
THERMAL PROPERTIES						
Melting Temperature	10°C/min		ISO 11357-1/-3	°C	216	
FLAMMABILITY PROPERTIES						
Flammability	0.8mm		UL 94	class	HB	
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

*: 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]

