

RADILON S RV400UK 3050 BK

PROVISIONAL

DESCRIPTION

PA6 40% glass fibre reinforced injection moulding grade. Improved UV resistance. Black colour.

Suitable for parts requiring high stiffness, good mechanical resistance, which must also resist to outdoor exposure.

ISO 1043: PA6-GF40

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

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

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				
Moulding shrinkage - Parallel / Normal	280/90/60 ^[1]	ISO 1183 ISO 294-4	kg/m³ %	1460 0.3 / 0.8
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	12500
Stress at Break	5mm/min	ISO 527-2/1A	MPa	175
Strain at Break	5mm/min	ISO 527-2/1A	%	2.4
Flexural Modulus	2mm/min	ISO 178	MPa	12200
Flexural Strength	2mm/min	ISO 178	MPa	265
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	80
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	15
THERMAL PROPERTIES				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
ELECTRICAL PROPERTIES				
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13
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]