

# RADILON S RV500W 333 NER

*Material code**Colour code*

PROVISIONAL

## DESCRIPTION

PA6 50% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring high stiffness, good mechanical resistance and excellent heat ageing properties retention.

ISO 1043 : PA6-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:
240 ÷ 280 °C	80 ÷ 90 °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





# Technical data sheet

PROVISIONAL

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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
<b>Physical Properties</b>					
Density		ISO 1183	Kg/m <sup>3</sup>	1560	
Moulding shrinkage – Parallel / Normal	280/90/60***	ISO 294-4	%	0,2 / 0,7	
Moisture absorption 23°C – 50%RH	2mm thk	ISO 62	%	1.4	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	4.8	
<b>Mechanical Properties</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	17000	11500
Stress at Break	5mm/min	ISO 527-2/1A	MPa	230	160
Strain at Break	5mm/min	ISO 527-2/1A	%	2,5	3,5
Flexural Modulus	2mm/min	ISO 178	MPa	15000	10000
Flexural Strength	2mm/min	ISO 178	MPa	330	
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	95	105
Charpy Impact Strength	-30°C	ISO 179/1 eU	KJ/m <sup>2</sup>	90	
<b>Thermal Properties</b>					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	220	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	210	
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	215	
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	215	
<b>Flammability Properties</b>					
Flammability	0.8mm	UL 94	class	HB	
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C/mm	700	
Automotive interior flammability	3mm thk	ISO 3795	mm/min	0	
<b>Electrical Properties</b>					
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

\*DAM = Dry As Moulded state \*\*Cond = Conditioned state similar to ISO 1110 \*\*\*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

