

# RADILON D RV300W 333 NER 6409

Material code

Colour code

PROVISIONAL

## DESCRIPTION

PA610, 30% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring good dimensional stability, high stiffness and mechanical resistance. Typical application: automotive fuel system components.

This grade is partially renewably-sourced (60% of base polymer by weight).

ISO 1043 : PA610-T- GF30

## MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.10%. 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 ÷ 260 °C	80 ÷ 90 °C	High

## PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet

RoHS compliant 2002/95/CE and following amendments

## Technical data sheet

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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
<b>Physical Properties</b>					
Density		ISO 1183	Kg/m <sup>3</sup>	1300	
Moisture absorption 23°C – 50%RH	2mm thk	ISO 62	%	1	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	2.2	
<b>Mechanical Properties</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	8700	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	145	
Strain at Break	5mm/min	ISO 527-2/1A	%	3,8	
Flexural Modulus	2mm/min	ISO 178	MPa	7500	
Flexural Strength	2mm/min	ISO 178	MPa	220	
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	80	
<b>Thermal Properties</b>					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	217	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	200	
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	215	
<b>Flammability Properties</b>					
Flammability	0.8mm	UL 94	class	HB	

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