

## PRODUCT INFORMATION

# RADILON A RV150W 333 BK

### DESCRIPTION

PA66 15% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring improved stiffness and good heat ageing properties retention.

ISO 1043: PA66-T GF15

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

### 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  
280 - 300°C

Mold Temperature  
80 - 100°C

Injection Speed  
medium

### 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

# RADILON A RV150W 333 BK

PROPERTY	STANDARD	UNIT	VALUE	DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>					
Density		kg/m <sup>3</sup>	1240		
Moulding shrinkage - Parallel / Normal	300 / 90 / 60 <sup>[1]</sup>	%	0,4 / 0,9		
Water Absorption, immersion at 23°C	2mm	%	7,9		
Moisture Absorption 23°C - 50%RH	2mm	%	2,3		
<b>MECHANICAL PROPERTIES</b>					
Tensile Modulus	1mm/min	MPa	6000	3900	
Stress at Break	5mm/min	MPa	123	85	
Strain at Break	5mm/min	%	2,8	10	
Flexural Modulus	2mm/min	MPa	5500		
Flexural Strength	2mm/min	MPa	195		
Charpy Impact Strength	+23°C	kJ/m <sup>2</sup>	39	70	
Charpy Impact Strength	-30°C	kJ/m <sup>2</sup>	37		
Charpy Notched Impact Strength	+23°C	kJ/m <sup>2</sup>	6	9	
Charpy Notched Impact Strength	-30°C	kJ/m <sup>2</sup>	5,5		
<b>THERMAL PROPERTIES</b>					
Melting Temperature	10°C/min	°C	260		
Heat Deflection Temperature	1.80 MPa	°C	215		
Heat Deflection Temperature	0.45 MPa	°C	240		
Vicat Softening Temperature	50°C/h 50N	°C	245		
<b>FLAMMABILITY PROPERTIES</b>					
Flammability	0,8mm	class	HB		
Glow Wire Flammability Index	2mm	°C	650		
Automotive Interior Flammability	3mm	mm/min	0		
<b>ELECTRICAL PROPERTIES</b>					
Volume Resistivity	500V	Ohm*m	1E13	1E11	
Surface Resistivity	500V	Ohm	1E12	1E10	

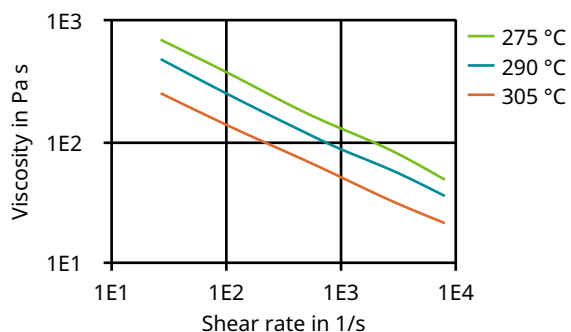
\*: DAM = Dry As Moulded state according to ISO 16396-2 \*\*: Cond = Conditioned state similar to ISO 1110 1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

## TECHNICAL DATA SHEET

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## Diagrams

## Viscosity-shear rate



## Shearstress-shear rate

