

# RADILON A RV300RKC 306 BK

Material code      Colour code

## DESCRIPTION

PA66 30% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring high stiffness and good mechanical resistance.  
Good resistance to hydrolysis. Product specifically intended for applications in civil and industrial water management sector. Suitable and approved for drinking water and foodstuff contact.

ISO 1043 : PA66-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 0.15%. 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:
280 ÷ 300 °C	80 ÷ 100 °C	Medium-high

## PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet



Underwriters Laboratories Inc. certified material. File number: E116324 [www.ul.com](http://www.ul.com)

RoHS compliant 2011/65/UE and following amendments

Suitable to be in contact with foodstuff. Please, get in contact with our Customer Service for further information.

This material grade meets the requirements of: BS 6920-1:2000 (Water Regulation Advisory Scheme "WRAS"), KTW Guidelines, DVGW-Standard W270 (11/2007),



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PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
<b>Physical Properties</b>					
Density		ISO 1183	Kg/m <sup>3</sup>	1360	
Moulding shrinkage – Parallel / Normal	300/90/60***	ISO 294-4	%	0,3 / 1	
Moisture absorption 23°C – 50%RH	2mm thk	ISO 62	%	1.6	
Water absorption, immersion at 23°C	2mm thk	ISO 62	%	6.2	
<b>Mechanical Properties</b>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	9700	7500
Stress at Break	5mm/min	ISO 527-2/1A	MPa	170	130
Strain at Break	5mm/min	ISO 527-2/1A	%	3,3	5
Flexural Modulus	2mm/min	ISO 178	MPa	8600	
Flexural Strength	2mm/min	ISO 178	MPa	260	
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m <sup>2</sup>	65	85
Charpy Impact Strength	-30°C	ISO 179/1 eU	KJ/m <sup>2</sup>	60	
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m <sup>2</sup>	10	15
Charpy Notched Impact Strength	-30°C	ISO 179/1 eA	KJ/m <sup>2</sup>	9	
<b>Thermal Properties</b>					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	260	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	245	
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	255	
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	250	
<b>Flammability Properties</b>					
Flammability	0.8mm	UL 94	class	HB	
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C	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
Comparative Tracking Index	Sol.A	IEC 60112	-	500	

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

