

# RADILON S RV350RKC2 306 BK

PRELIMINARY

## DESCRIPTION

PA6 35% glass fibre reinforced injection moulding grade. Heat stabilized. Black colour.

Product with good resistance to hydrolysis. Specifically intended for use in applications in civil and industrial water management as well as appliances, requiring high stiffness and good mechanical resistance. Suitable and approved for drinking water and food contact.

ISO 1043: PA6-GF35

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

*THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE*

## 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 Safety Data Sheet.

ROHS compliant 2011/65/EU and successive amendments.

Suitable for materials and articles intended to come into contact directly or indirectly with food in compliance with EU 10/2011 and FDA Title 21CFR Chapter 1, part 177.1500.

Suitable and approved for drinking water contact.

Please get in contact with our Customer Service for drinking water contact approvals and further information.



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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>				
Density	ISO 1183	kg/m <sup>3</sup>	1410	
Water Absorption, immersion at 23°C	ISO 62	%		6.4
Moisture Absorption 23°C - 50%RH	ISO 62	%		1.8
<b>MECHANICAL PROPERTIES</b>				
Tensile Modulus	ISO 527-2/1A	MPa	10900	6700
Stress at Break	ISO 527-2/1A	MPa	177	115
Strain at Break	ISO 527-2/1A	%	3.3	8.1
Flexural Modulus	ISO 178	MPa	10600	6480
Flexural Strength	ISO 178	MPa	280	180
Charpy Impact Strength	ISO 179/1eU	kJ/m <sup>2</sup>	93	100
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m <sup>2</sup>	14	22
<b>THERMAL PROPERTIES</b>				
Melting Temperature	ISO 11357-1/-3	°C		216
<b>ELECTRICAL PROPERTIES</b>				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	IEC 62631-3-2	Ohm	1E12	1E10

\*: DAM = Dry As Moulded state according to ISO 16396-2, \*\*: Cond = Conditioned state similar to ISO 1110

