

## PRODUCT INFORMATION

# RADILON S ERV300 100 NT

PROVISIONAL

### DESCRIPTION

PA6 30% glass fiber reinforced injection moulding grade. Toughened. Natural colour.

Suitable for parts requiring improved impact strength along with high stiffness and mechanical reinforcement.

ISO 1043: PA6-I GF30

*THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS*

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  
240 - 280°C

Mold Temperature  
80 - 90°C

Injection Speed  
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

## TECHNICAL DATA SHEET

# RADILON S ERV300 100 NT

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>				
Density		kg/m <sup>3</sup>	1340	
Moulding shrinkage - Parallel / Normal	280 / 80 / 60 <sup>[1]</sup>	%	0.2 / 0.5	
Water Absorption, immersion at 23°C	2mm	%	8.6	
Moisture Absorption 23°C - 50%RH	2mm	%	2.2	
<b>MECHANICAL PROPERTIES</b>				
Tensile Modulus	1mm/min	MPa	8900	6200
Stress at Break	5mm/min	MPa	155	90
Strain at Break	5mm/min	%	3.4	3.9
Flexural Modulus	2mm/min	MPa	7600	
Flexural Strength	2mm/min	MPa	220	
Charpy Impact Strength	+23°C	kJ/m <sup>2</sup>	85	95
Charpy Notched Impact Strength	+23°C	kJ/m <sup>2</sup>	20	30
<b>THERMAL PROPERTIES</b>				
Melting Temperature	10°C/min	°C	220	
Heat Deflection Temperature	1.80 MPa	°C	200	
<b>FLAMMABILITY PROPERTIES</b>				
Flammability	0.8mm	UL 94	class	HB
Glow Wire Flammability Index	2mm	IEC 60695-2-1/2	°C	650
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
<b>ELECTRICAL PROPERTIES</b>				
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13 1E11
Surface Resistivity	500V	IEC 60093	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]