

## PRODUCT INFORMATION

# RADILON A LRV600W 333 BK

PROVISIONAL

### DESCRIPTION

PA66 60% glass fiber reinforced injection moulding grade. Good flowability, heat stabilized. Black colour.

Suitable for parts requiring very high stiffness and high mechanical resistance, as in case of metal replacement applications. Good resistance to thermal ageing.

ISO 1043: PA66-T GF60

*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  
280 - 300°C

Mold Temperature  
80 - 100°C

Injection Speed  
medium-high

### 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 LRV600W 333 BK

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
<b>PHYSICAL PROPERTIES</b>				
Density	ISO 1183	kg/m <sup>3</sup>	1700	
Water Absorption, immersion at 23°C	2mm ISO 62	%	3.7	
Moisture Absorption 23°C - 50%RH	2mm ISO 62	%	1	
<b>MECHANICAL PROPERTIES</b>				
Tensile Modulus	1mm/min ISO 527-2/1A	MPa	21000	
Stress at Break	5mm/min ISO 527-2/1A	MPa	260	
Strain at Break	5mm/min ISO 527-2/1A	%	2.5	
Flexural Modulus	2mm/min ISO 178	MPa	20500	
Flexural Strength	2mm/min ISO 178	MPa	400	
Charpy Impact Strength	+23°C ISO 179/1eU	kJ/m <sup>2</sup>	100	
Charpy Impact Strength	-30°C ISO 179/1eU	kJ/m <sup>2</sup>	95	
Charpy Notched Impact Strength	+23°C ISO 179/1eA	kJ/m <sup>2</sup>	17	
Charpy Notched Impact Strength	-30°C ISO 179/1eA	kJ/m <sup>2</sup>	16	
<b>THERMAL PROPERTIES</b>				
Melting Temperature	10°C/min ISO 11357-1/-3	°C	260	
Heat Deflection Temperature	1.80 MPa ISO 75/2Af	°C	260	
<b>FLAMMABILITY PROPERTIES</b>				
Flammability	0.8mm UL 94	class	HB	
Glow Wire Flammability Index	2mm IEC 60695-2-1/2	°C	700	
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

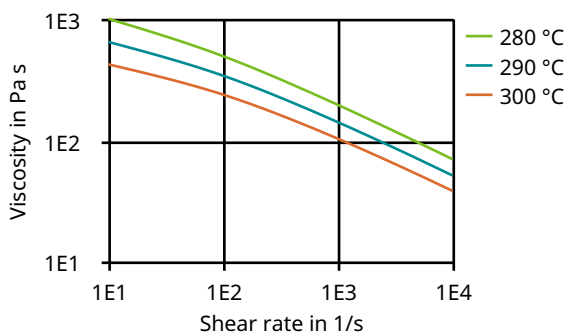
\*: DAM = Dry As Moulded state according to ISO 16396-2 \*\*: Cond = Conditioned state similar to ISO 1110

TECHNICAL DATA SHEET

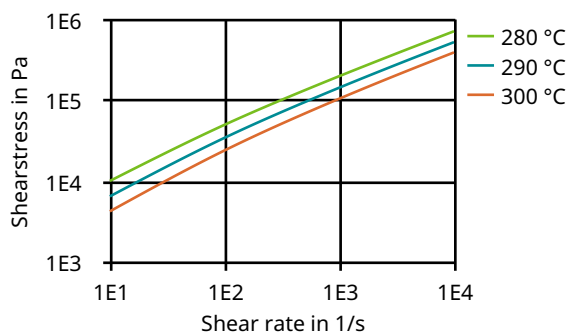
# RADILON A LRV600W 333 BK

Diagrams

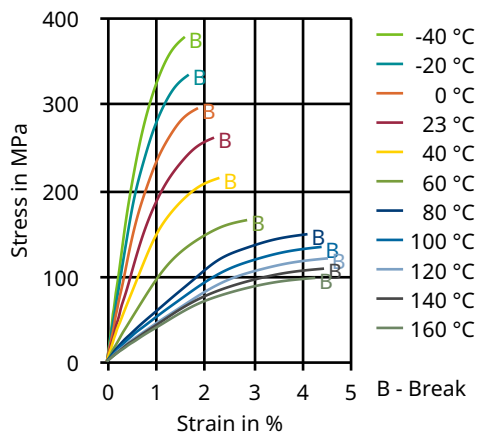
Viscosity-shear rate



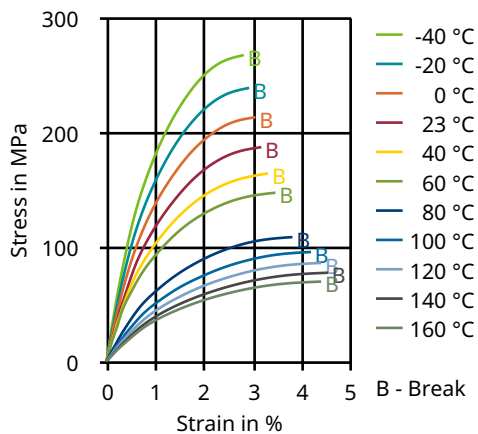
Shearstress-shear rate



Stress-strain (dry)



Stress-strain (cond.)

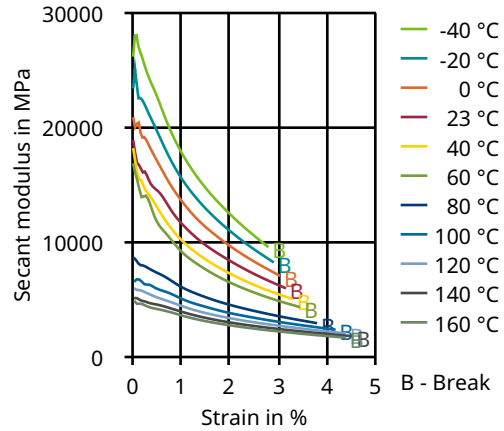
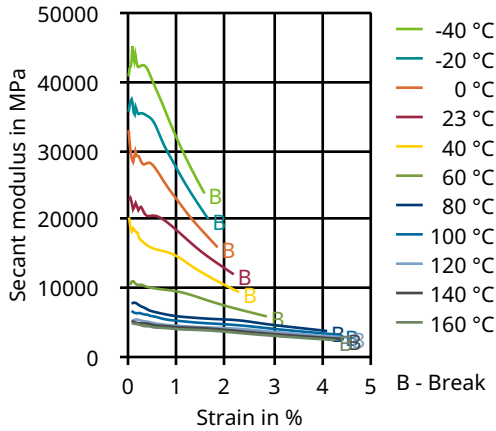


TECHNICAL DATA SHEET

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Secant modulus-strain (dry)

Secant modulus-strain (cond.)



Tensile modulus-temperature (dry)

Tensile modulus-temperature (cond.)

