

RADILON D ERV300W 333 BK

PROVISIONAL

DESCRIPTION

PA610 30% glass fibre reinforced injection moulding grade. Toughened, heat stabilized. Black colour.

Suitable for parts requiring good dimensional stability, high stiffness and mechanical resistance. Typical application: automotive fuel system components. This grade is partially renewably-sourced (64% of base polymer by weight).

ISO 1043: PA610-I-GF30

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

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

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.10%. 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
high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
ROHS compliant 2011/65/EU and following amendments



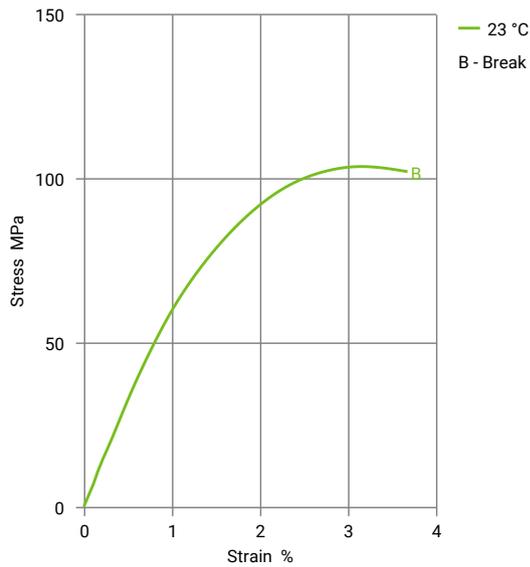
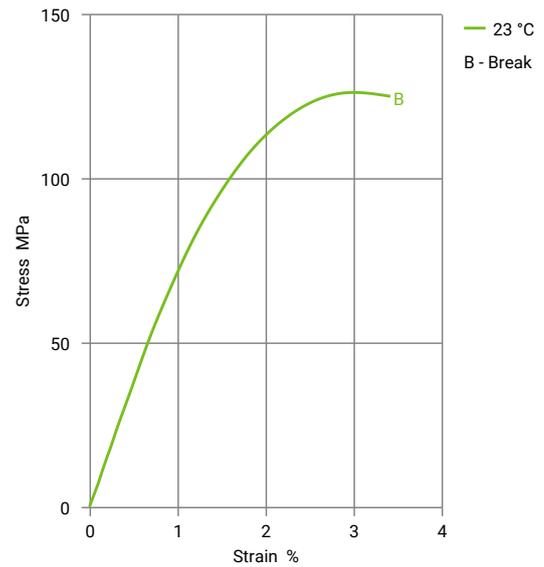
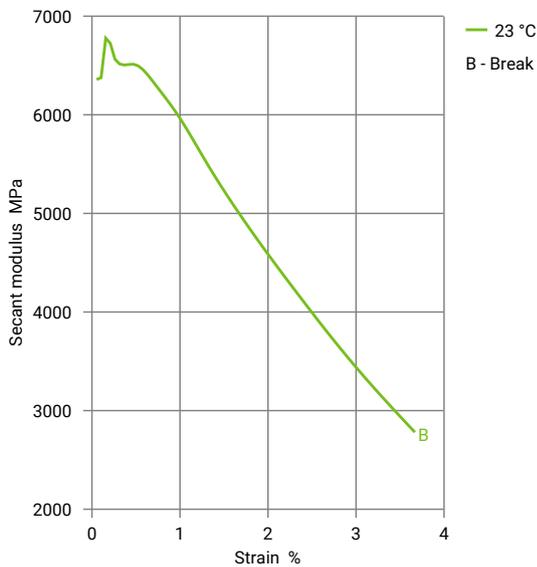
RADILON D ERV300W 333 BK

PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1260	
Water Absorption, immersion at 23°C	ISO 62	%		2.2
Moisture Absorption 23°C - 50%RH	ISO 62	%		1
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	7500	5100
Stress at Break	ISO 527-2/1A	MPa	110	90
Strain at Break	ISO 527-2/1A	%	5	8
Flexural Modulus	ISO 178	MPa	5800	4500
Flexural Strength	ISO 178	MPa	175	140
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	100	105
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	85	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	30	40
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	20	
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C		220
Heat Deflection Temperature	ISO 75/2Af	°C		195
FLAMMABILITY PROPERTIES				
Flammability	UL 94	class		HB
ELECTRICAL PROPERTIES				
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



RADILON D ERV300W 333 BK

DIAGRAMS
Stress-strain (cond.)

Stress-strain (dry)

Secant modulus-strain (cond.)

Secant modulus-strain (dry)
