

RADILON S LERV150K 100 NT

DESCRIPTION

PA6 15% glass fibre reinforced, impact modified, heat stabilized. Natural colour.

Suitable for parts requiring improved impact strength along with enhanced stiffness.

ISO 1043: PA6-I-GF15

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
250 - 280°C

Mold Temperature
60 - 100°C

Injection Speed
medium-high

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
Underwriters Laboratories Inc. certified material www.ul.com
ROHS compliant 2011/65/EU and following amendments



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PROPERTY	STANDARD	UNIT	VALUE	
			DAM*	Cond**
PHYSICAL PROPERTIES				
Density	ISO 1183	kg/m ³	1210	
Water Absorption, immersion at 23°C	ISO 62	%		7.6
Moisture Absorption 23°C - 50%RH	ISO 62	%		2.3
Viscosity Index (Sulfuric Acid)	ISO 307	ml/g		118
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	5400	3050
Yield Strain	ISO 527-2/1A	%	3.7	9.5
Stress at Break	ISO 527-2/1A	MPa	110	68
Strain at Break	ISO 527-2/1A	%	4.3	13
Flexural Modulus	ISO 178	MPa	4800	
Flexural Strength	ISO 178	MPa	175	
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	75	
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	60	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	13	
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	6.6	
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C		218
FLAMMABILITY PROPERTIES				
Flammability	UL 94	class		HB
Automotive Interior Flammability	ISO 3795	mm/min		<50
ELECTRICAL PROPERTIES				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	
Surface Resistivity	IEC 62631-3-2	Ohm	1E12	
Comparative Tracking Index	IEC 60112	V	600	

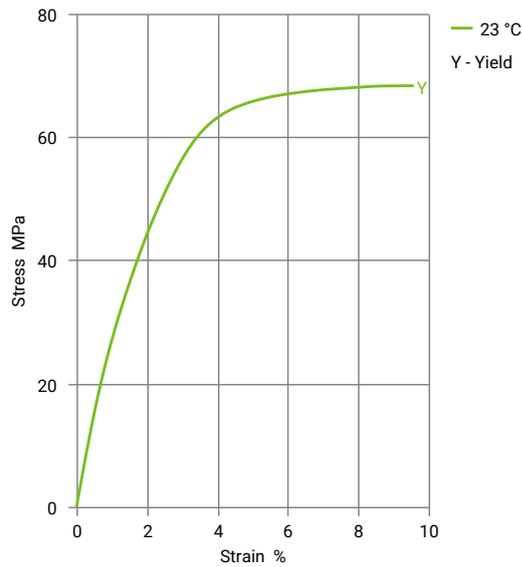
*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110



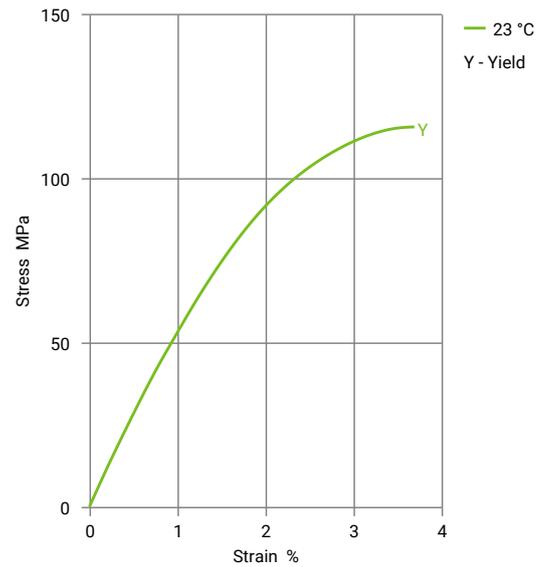
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DIAGRAMS

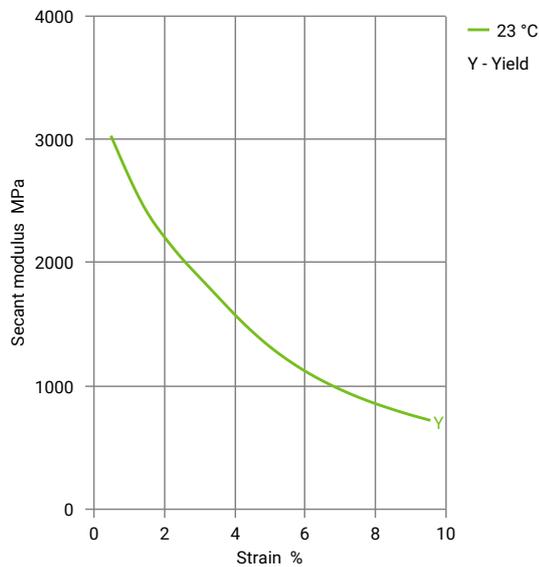
Stress-strain (cond.)



Stress-strain (dry)



Secant modulus-strain (cond.)



Secant modulus-strain (dry)

