

RADILON S RV150 100 NT

DESCRIPTION

PA6 15% glass fibre reinforced injection moulding grade. Natural colour.

Suitable for parts requiring improved stiffness.

ISO 1043: PA6-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
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
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	1230		
Moulding shrinkage - Parallel / Normal	280/90/60 ^[1]	ISO 294-4	%	0.4 / 1.1	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	8.5	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	2.5	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	5600	3800
Stress at Break	5mm/min	ISO 527-2/1A	MPa	130	80
Strain at Break	5mm/min	ISO 527-2/1A	%	4.5	12
Flexural Modulus	2mm/min	ISO 178	MPa	5200	
Flexural Strength	2mm/min	ISO 178	MPa	195	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	50	70
Charpy Impact Strength	-30°C	ISO 179/1eU	kJ/m ²	40	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	7	10
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m ²	5.5	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	190	
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	205	
Coeff. of Linear Therm. Expansion	parallel, 23°C-55°C	ISO 11359-1/-2	E-6/K	30	
Coeff. of Linear Therm. Expansion	normal, 23°C-55°C	ISO 11359-1/-2	E-6/K	70	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	HB	
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C	700	
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0	
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10
Comparative Tracking Index	SoI.A	IEC 60112	V	600	

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

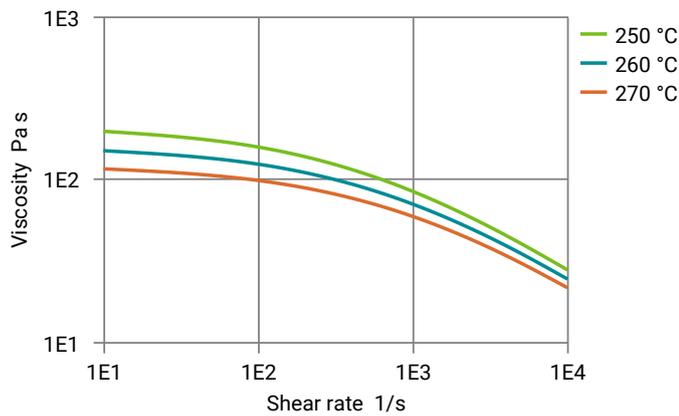
1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]



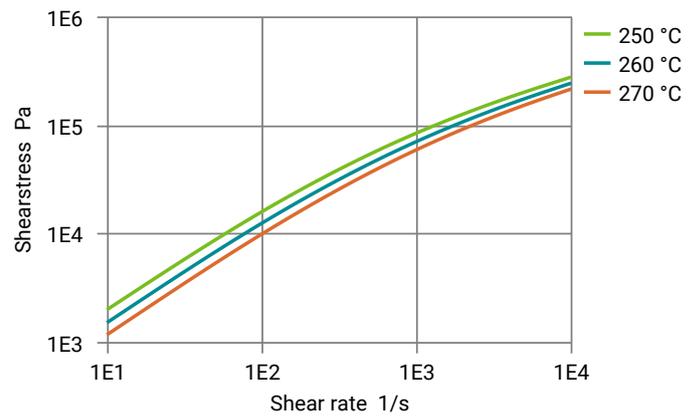
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DIAGRAMS

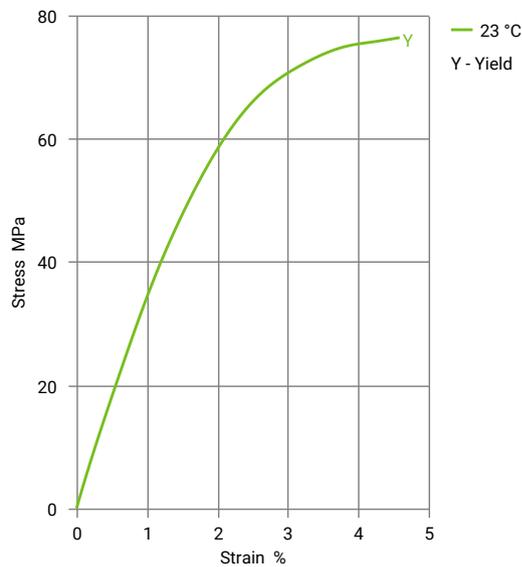
Viscosity-shear rate



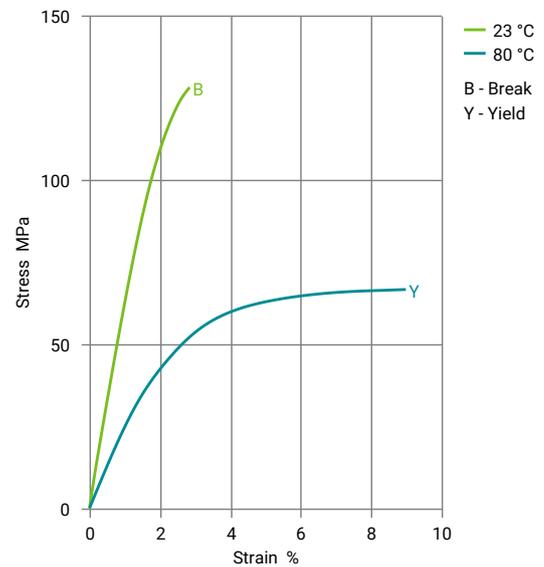
Shearstress-shear rate



Stress-strain (cond.)

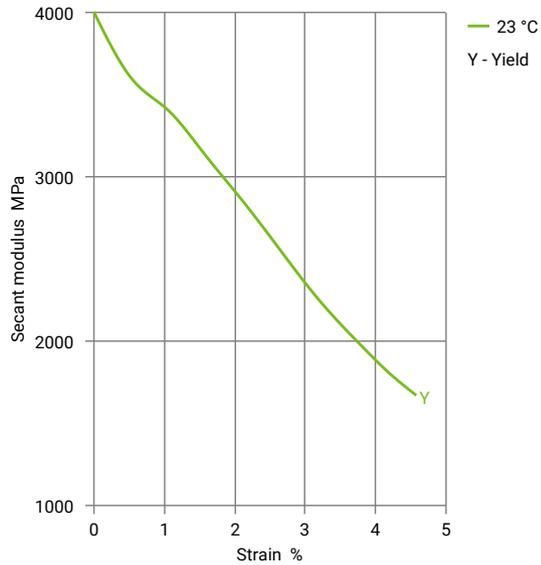


Stress-strain (dry)



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Secant modulus-strain (cond.)



Secant modulus-strain (dry)

