

RADILON S RV350X2N 333 BK

PROVISIONAL

DESCRIPTION

PA6 35% glass fibre reinforced injection moulding grade with enhanced thermal resistance in contact with hot air. Electrically neutral and DPPD free. Outstanding mechanical properties retention versus standard polyamide 6 after heat ageing. Black colour.

Suitable for parts requiring high stiffness, good mechanical resistance and excellent heat ageing properties retention.

ISO 1043: PA6-GF35

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

Formerly Known As LX20076

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	1400	
Water Absorption, immersion at 23°C	ISO 62	%		6.4
Moisture Absorption 23°C - 50%RH	ISO 62	%		1.8
MECHANICAL PROPERTIES				
Tensile Modulus	ISO 527-2/1A	MPa	11100	7300
Stress at Break	ISO 527-2/1A	MPa	180	115
Strain at Break	ISO 527-2/1A	%	3.5	8
Flexural Modulus	ISO 178	MPa	9800	6400
Flexural Strength	ISO 178	MPa	280	170
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	87	100
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	70	90
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	14	21
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	10	16
THERMAL PROPERTIES				
Melting Temperature	ISO 11357-1/-3	°C		220
Heat Deflection Temperature	ISO 75/2Af	°C		200
Heat Deflection Temperature	ISO 75/2Bf	°C		220
Automotive Interior Flammability	ISO 3795	mm/min		0
ELECTRICAL PROPERTIES				
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13	
Surface Resistivity	IEC 62631-3-2	Ohm	1E12	

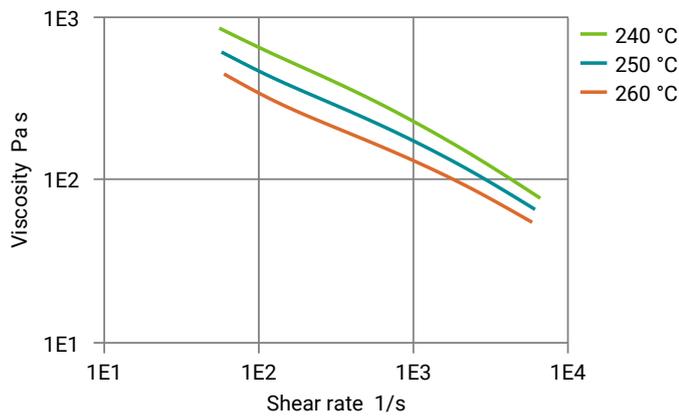
*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110



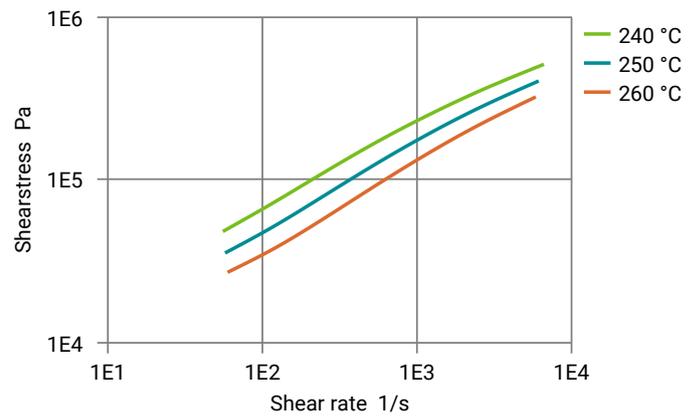
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DIAGRAMS

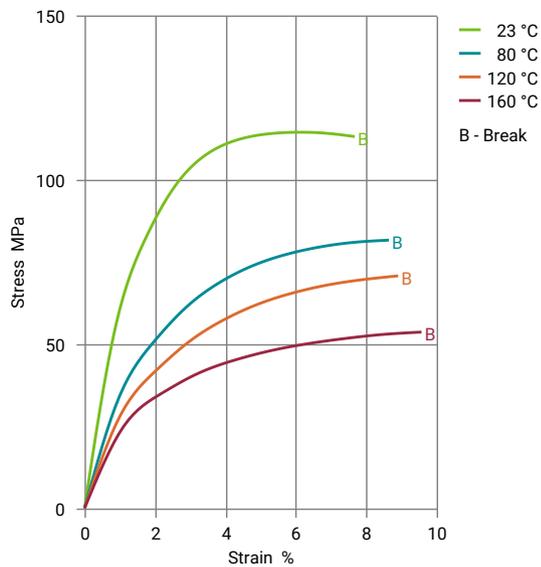
Viscosity-shear rate



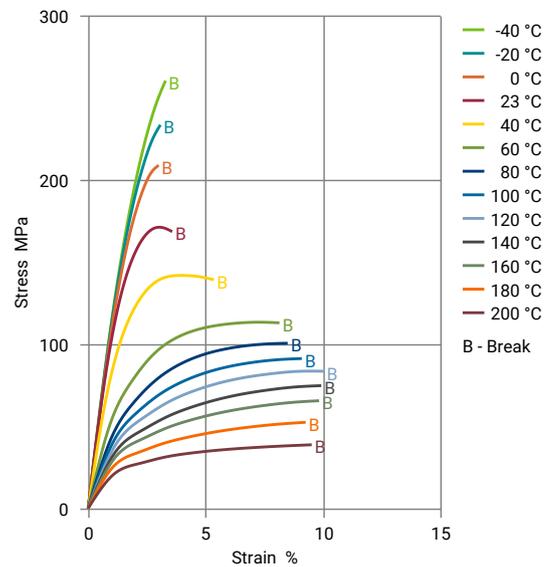
Shearstress-shear rate



Stress-strain (cond.)

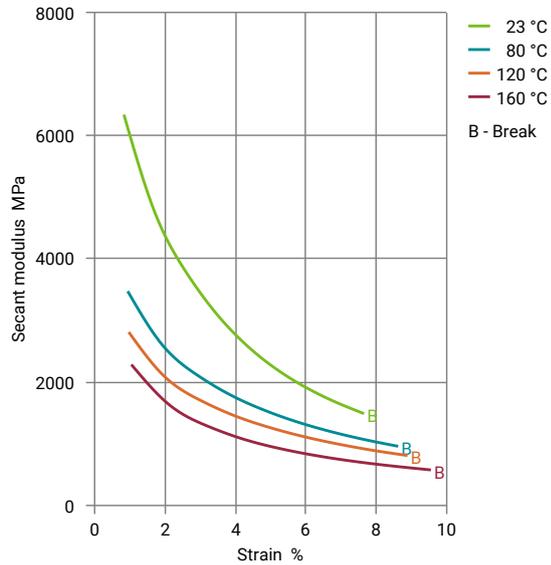


Stress-strain (dry)

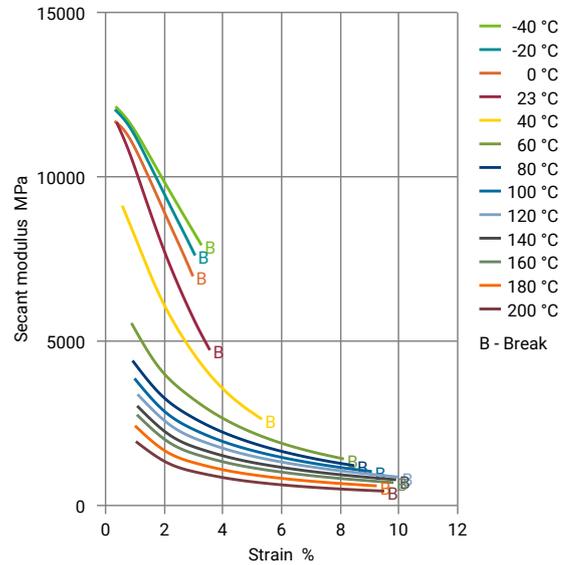


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Secant modulus-strain (cond.)



Secant modulus-strain (dry)



Specific volume-temperature (pvT)

