

RADILON NeXTreme RV350X2N 333 BK

PROVISIONAL

DESCRIPTION

High Temperature polyamide injection moulding grade, 35% glass fibre reinforced. Halogen free and superior thermal resistance in contact with hot air. Electrically neutral heat stabilization. Black colour.

Suitable for demanding mechanical applications in very severe temperature conditions, where the parts must endure long term contact with hot air until 220-230 °C. Very good improvement of mechanical properties retention after heat ageing. Typical applications in automotive are under bonnet components, like turbo air ducts, intercooler end caps. This material can be processed with water conditioned tools.

ISO 1043: PA*-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

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
305 - 315°C

Mold Temperature
90 - 100°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	1460
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	12200
Stress at Break	5mm/min	ISO 527-2/1A	MPa	200
Strain at Break	5mm/min	ISO 527-2/1A	%	2.5
Flexural Modulus	2mm/min	ISO 178	MPa	11300
Flexural Strength	2mm/min	ISO 178	MPa	290
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	65
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	12
THERMAL PROPERTIES				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	295
FLAMMABILITY PROPERTIES				
Flammability	0.8mm	UL 94	class	HB
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
ELECTRICAL PROPERTIES				
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12

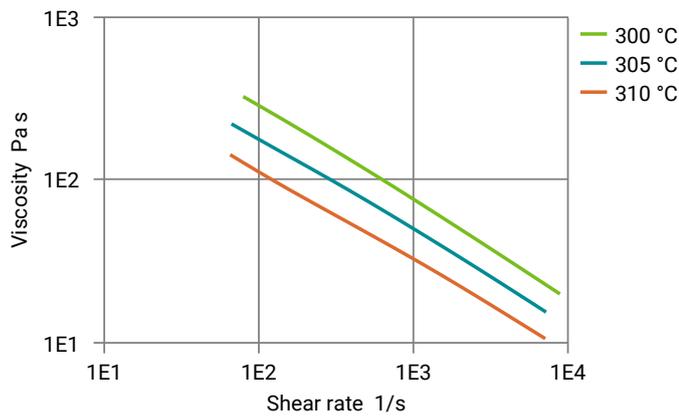
*: DAM = Dry As Moulded state according to ISO 16396-2, **: Cond = Conditioned state similar to ISO 1110



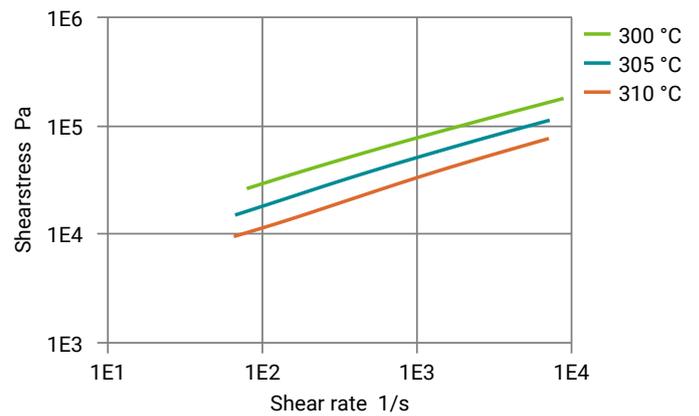
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DIAGRAMS

Viscosity-shear rate



Shearstress-shear rate



Specific volume-temperature (pvT)

