

PRODUCT INFORMATION

RADILON CA RV300L 333 BK

DESCRIPTION

PA66/6 copolymer injection moulding grade, 30% glass Fiber reinforced. Black colour.

Suitable for parts requiring high stiffness and good mechanical resistance. Good surface aspect and easier flow.

ISO 1043: PA66/6 GF30

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
270 - 290°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/UE and following amendments

TECHNICAL DATA SHEET

RADILON CA RV300L 333 BK

PROPERTY	STANDARD	UNIT	VALUE	DAM*	Cond**
PHYSICAL PROPERTIES					
Density		kg/m ³	1350		
Moulding shrinkage - Parallel / Normal	280 / 90 / 60 ^[1]	%	0.2 / 0.7		
Water Absorption, immersion at 23°C	2mm	%	7		
Moisture Absorption 23°C - 50%RH	2mm	%	1.7		
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	MPa	9400		
Stress at Break	5mm/min	MPa	165		
Strain at Break	5mm/min	%	3.1		
Flexural Modulus	2mm/min	MPa	7800		
Flexural Strength	2mm/min	MPa	245		
Charpy Impact Strength	+23°C	kJ/m ²	70		
Charpy Impact Strength	-30°C	kJ/m ²	70		
Charpy Notched Impact Strength	+23°C	kJ/m ²	10		
Charpy Notched Impact Strength	-30°C	kJ/m ²	8		
THERMAL PROPERTIES					
Melting Temperature	10°C/min	°C	245		
Heat Deflection Temperature	1.80 MPa	°C	215		
Heat Deflection Temperature	0.45 MPa	°C	235		
Vicat Softening Temperature	50°C/h 50N	°C	225		
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	class	HB		
Glow Wire Flammability Index	2mm	°C	700		
Automotive Interior Flammability	3mm	mm/min	0		
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	Ohm*m	1E13		1E11
Surface Resistivity	500V	Ohm	1E12		1E10
Comparative Tracking Index	Sol.A	-	500		

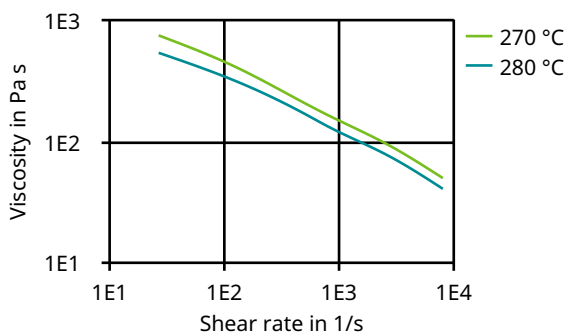
*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110 1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

TECHNICAL DATA SHEET

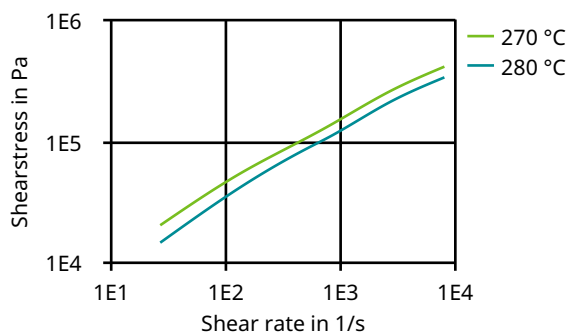
RADILON CA RV300L 333 BK

Diagrams

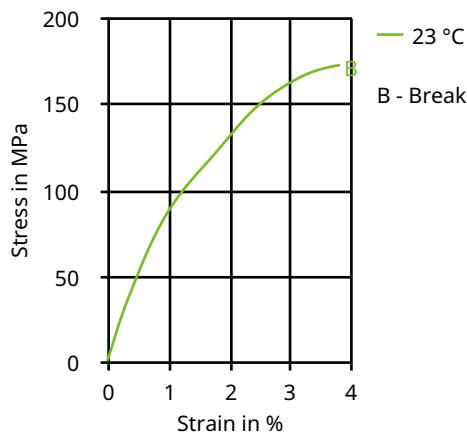
Viscosity-shear rate (->RADILON CA RV300L 100 NAT)



Shearstress-shear rate (->RADILON CA RV300L 100 NAT)



Stress-strain (dry)(->RADILON CA RV300L 100 NAT)



Secant modulus-strain (dry)(->RADILON CA RV300L 100 NAT)

