

PRODUCT INFORMATION

RADILON DT RV300RKC2 306 BK

PRELIMINARY

DESCRIPTION

PA612 30% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring good dimensional stability and mechanical resistance. Intended for prolonged contact with drinking water. Improved resistance to peroxides.

ISO 1043: PA612-T GF30

THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE

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 0.10%. 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/UE and following amendments

Suitable for use in contact with food and potable water. Please get in contact with our Customer Service for further information.

This material grade meets the requirements of: KTW Guidelines and DVGW-Standard W270 (11/2007), ACS positive lists included in the Circular DGC/VS4 n°2000/232 dated 27 April 2000

TECHNICAL DATA SHEET

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PROPERTY	STANDARD	UNIT	VALUE	DAM*	Cond**
PHYSICAL PROPERTIES					
Density	ISO 1183	kg/m ³	1290		
Moulding shrinkage - Parallel / Normal	ISO 294-4	%	0.3 / 0.7		
MECHANICAL PROPERTIES					
Tensile Modulus	ISO 527-2/1A	MPa	8500		
Stress at Break	ISO 527-2/1A	MPa	150		
Strain at Break	ISO 527-2/1A	%	2.9		
Flexural Modulus	ISO 178	MPa	7900		
Flexural Strength	ISO 178	MPa	230		
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	66		
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	11		
THERMAL PROPERTIES					
Melting Temperature	ISO 11357-1/-3	°C	212		
Coeff. of Linear Therm. Expansion	ISO 11359-1/-2	E-6/K	20		
Coeff. of Linear Therm. Expansion	ISO 11359-1/-2	E-6/K	120		

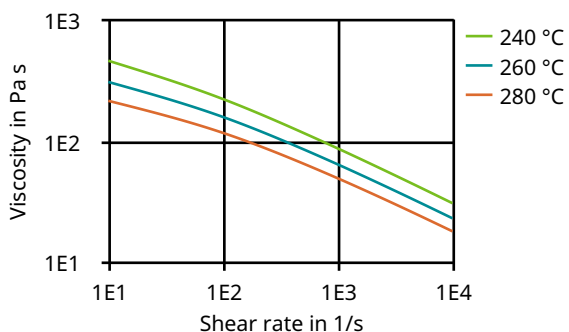
*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110 1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

TECHNICAL DATA SHEET

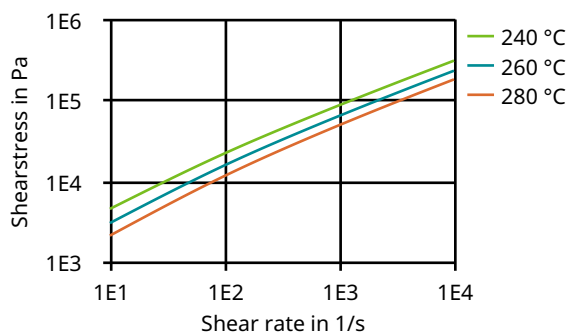
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Diagrams

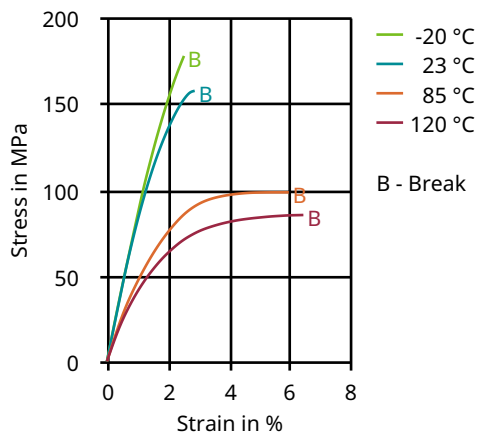
Viscosity-shear rate



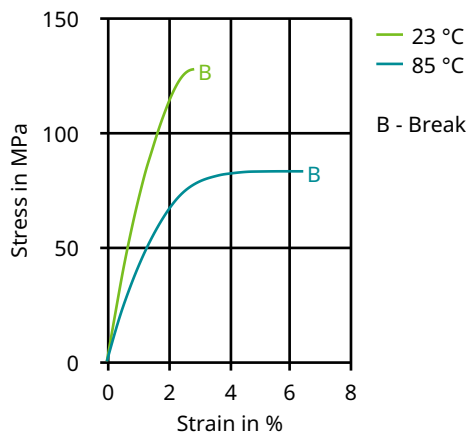
Shearstress-shear rate



Stress-strain (dry)



Stress-strain (cond.)

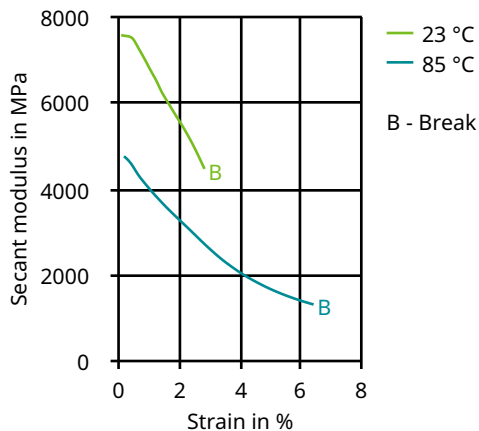
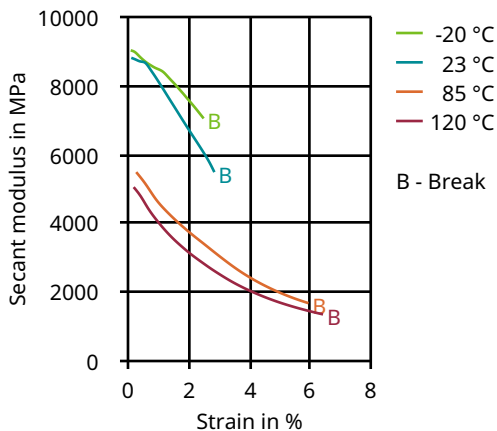


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Secant modulus-strain (dry)

Secant modulus-strain (cond.)



Coeff. of linear thermal expansion, parallel

