



PRODUCT INFORMATION

RADILON D RV600RKC 306 BK

PROVISIONAL

DESCRIPTION

PA610 60% glass fiber reinforced injection moulding grade. Heat stabilized. Black colour.

Suitable for parts requiring very high stiffness and good mechanical resistance. Good resistance to hydrolysis. Product specifically intended for applications in civil and industrial water management sector. Suitable and approved for drinking water and foodstuff contact. This grade is partially renewably-sourced (60% of base polymer by weight).

ISO 1043: PA610 GF60

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

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. Avoid excessive shear rates and high thermal stresses for better processing. 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 Mold Temperature Injection Speed 240 - 280°C 80 - 90°C 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 to be in contact with foodstuff. Please, get in contact with our Customer Service for further information
This material grade meets the requirements of KTW Guidelines
This material grade meets the requirements of ACS DGS/SD7A n°571 Nov 25, 2002
Das Material erfüllt die Anforderungen der DVGW-Standard W270 (11/2007)

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TECHNICAL DATA SHEET

RADILON D RV600RKC 306 BK

PROPERTY		STANDARD	UNIT	VALUE DAM* Cond**
PHYSICAL PROPERTIES				
Density Moulding shrinkage - Parallel / Normal Water Absorption, immersion at 23°C Moisture Absorption 23°C - 50%RH	280 /90 /60 ^[1] 2mm 2mm	ISO 1183 ISO 294-4 ISO 62 ISO 62	kg/m³ % % %	1660 0.2 / 0.3 1.3 0.5
MECHANICAL PROPERTIES				
Tensile Modulus Stress at Break Strain at Break Flexural Modulus Flexural Strength Charpy Impact Strength Charpy Notched Impact Strength	1mm/min 5mm/min 5mm/min 2mm/min 2mm/min +23°C +23°C	ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA	MPa MPa % MPa MPa kJ/m² kJ/m²	19000 17200 210 190 2.9 3 17000 15400 340 320 100 105 18
THERMAL PROPERTIES				
Melting Temperature Heat Deflection Temperature Heat Deflection Temperature Vicat Softening Temperature	10°C/min 1.80 MPa 8.00 MPa 50°C/h 50N	ISO 11357-1/-3 ISO 75/2Af ISO 75/2Af ISO 306	°C °C °C	220 215 190 215
FLAMMABILITY PROPERTIES				
Flammability	-mm	UL 94	class	НВ
ELECTRICAL PROPERTIES				
Volume Resistivity Surface Resistivity	500V 500V	IEC 60093	Ohm*m Ohm	1E13 1E11 1E12

^{*:} 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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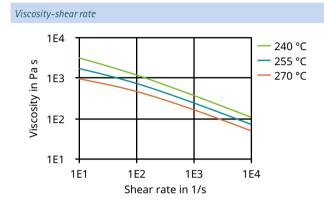




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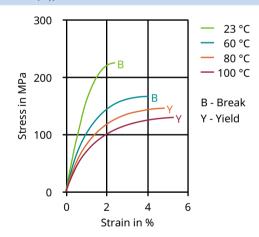
Diagrams



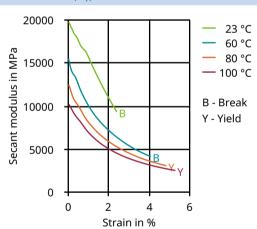
Shearstress-shear rate



Stress-strain (dry)



Secant modulus-strain (dry)



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