

PRODUCT INFORMATION

RADILON D ERV300W 333 BK

PRELIMINARY

DESCRIPTION

PA610 30% glass fiber reinforced injection moulding grade. Toughened, heat stabilized. Black colour.

Suitable for parts requiring good dimensional stability, high stiffness and mechanical resistance. Typical application: automotive fuel system components. This grade is partially renewably-sourced (60% of base polymer by weight).

ISO 1043: PA610-IT- 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
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 D ERV300W 333 BK

PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m ³	1260	
Water Absorption, immersion at 23°C	2mm	ISO 62	%	2.2	
Moisture Absorption 23°C - 50%RH	2mm	ISO 62	%	1	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	7200	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	115	
Strain at Break	5mm/min	ISO 527-2/1A	%	4	
Flexural Modulus	2mm/min	ISO 178	MPa	6500	
Flexural Strength	2mm/min	ISO 178	MPa	180	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	90	
Charpy Impact Strength	-30°C	ISO 179/1eU	kJ/m ²	85	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	25	
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m ²	15	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	195	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	HB	

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