RADILON DT RV450USR 333 BK

PRELIMINARY

DESCRIPTION

PA612, 45% glass fibre reinforced injection moulding grade. Improved resistance to uric acid solutions. Black colour.

Material especially developed for automotive under the hood applications, employed in selective catalytic reductions (SCR) systems.

ISO 1043: PA612-GF45

REGIONAL AVAILABILITY: North America, Europe, Asia Pacific, South and Central America, Near East/Africa

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

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	Mold Temperature	Injection Speed
260 - 290°C	80 - 90°C	medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet
ROHS compliant 2011/65/EU and following amendments

RADILON DT RV450USR 333 BK

PROPERTY		STANDARD	UNIT	VALUE DAM*	VALUE Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1450	
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	13200	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	185	
Strain at Break	5mm/min	ISO 527-2/1A	%	3.8	
Flexural Modulus	2mm/min	ISO 178	MPa	11200	
Flexural Strength	2mm/min	ISO 178	MPa	280	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m²	90	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m²	16	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	214	
ELECTRICAL PROPERTIES					
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13	1E11
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12	1E10

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