Product Information

RADILON A RV150HHR 3800 NER 6457

Material code *Colour code*

PROVISIONAL

DESCRIPTION

PA66 15% glass fiber reinforced injection molding grade with enhanced thermal resistance in contact with hot air. High improvement of mechanical properties retention versus standard polyamide 66 after heat ageing. Black colour.

Alternative to PPA and PA4.6 grades in medium-stiffness automotive under the bonnet applications. Continuous use temperature until 210 °C in air.

ISO 1043 : PA66-T GF15

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.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
280 ÷ 300 °C	80 ÷ 100 °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

Technical data sheet

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PROPERTY		STANDARD	UNIT	VALUE DAM*	VALUE Cond**
Physical Properties					
Density		ISO 1183	Kg/m^3	1220	
Moulding shrinkage – Parallel / Normal	300/90/60***	ISO 294-4	%	0,5 / 0,8	
Mechanical Properties					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	5500	4200
Stress at Break	5mm/min	ISO 527-2/1A	MPa	125	90
Strain at Break	5mm/min	ISO 527-2/1A	%	4	4,5
Flexural Modulus	2mm/min	ISO 178	MPa	5200	3200
Flexural Strength	2mm/min	ISO 178	MPa	190	115
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m^2	75	80
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m^2	10	17
Thermal Properties					
Melting Temperature	10°C/min	ISO 11357-1-3	°C	260	
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	235	
Flammability Properties					
Flammability	0.8mm	UL 94	class	HB	
Electrical Properties					
Volume resistivity	500V	IEC 60093	ohm · m	1 E+13	1 E+11
Surface resistivity	500V	IEC 60093	ohm	1 E+12	1 E+10

The characteristics shown here must be considered purely provisional and indicative for a product at developmental stage.
*DAM = Dry As Moulded state **Cond = Conditioned state similar to ISO 1110 ***Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]