

RADIFLAM B RV150 AE 100 NT

DESCRIPTION

PBT flame retardant injection moulding grade. 15% glass fibre reinforced. Natural colour.

Suitable for parts requiring fire retardancy along with improved stiffness. Rated V-0 according to UL-94.

ISO 1043: PBT-GF15 FR(17)

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. It is important to dry the material prior to processing: maximum recommended water content is 0.02%. Typical conditions with a desiccant drier: temperature 120 ° C, dew point -40 ° 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
250 - 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
Underwriters Laboratories Inc. certified material www.ul.com
ROHS compliant 2011/65/EU and following amendments



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PROPERTY	STANDARD	UNIT	VALUE
PHYSICAL PROPERTIES			
Density	ISO 1183	kg/m ³	1560
Melt Flow Rate	ISO 1133	g/10min	12
Moulding shrinkage - Parallel / Normal	ISO 294-4	%	0.7 / 1.0
MECHANICAL PROPERTIES			
Tensile Modulus	ISO 527-2/1A	MPa	6800
Stress at Break	ISO 527-2/1A	MPa	105
Strain at Break	ISO 527-2/1A	%	3
Flexural Modulus	ISO 178	MPa	6000
Flexural Strength	ISO 178	MPa	160
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	50
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	9
THERMAL PROPERTIES			
Melting Temperature	ISO 11357-1/-3	°C	225
FLAMMABILITY PROPERTIES			
Flammability	UL 94	class	V-0
Automotive Interior Flammability	ISO 3795	mm/min	0
ELECTRICAL PROPERTIES			
Volume Resistivity	IEC 62631-3-1	Ohm*m	1E13
Surface Resistivity	IEC 62631-3-2	Ohm	1E12

1: Temperature [°C] / Load [kg]

2: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

