



RADIFLAM B RV300 HF 100 NT

PRELIMINARY

DESCRIPTION

PBT flame retardant injection moulding grade, halogen and red phosphorus free. 30% glass fibre reinforced. Natural colour.

Suitable for parts requiring fire retardancy along with improved stiffness and mechanical resistance. Good electrical insulating properties. Rated V-0 according to UL-94.

ISO 1043: PBT-GF30 FR(30+40)

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

Formerly Known As LX22388

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
ROHS compliant 2011/65/EU and following amendments



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PROPERTY		STANDARD	UNIT	VALUE
PHYSICAL PROPERTIES				
Density		ISO 1183	kg/m ³	1550
Melt Flow Rate	250/5 ^[1]	ISO 1133	g/10min	35
MECHANICAL PROPERTIES				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10600
Stress at Break	5mm/min	ISO 527-2/1A	MPa	102
Strain at Break	5mm/min	ISO 527-2/1A	%	2.1
Flexural Modulus	2mm/min	ISO 178	MPa	9800
Flexural Strength	2mm/min	ISO 178	MPa	135
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	40
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	8.5
THERMAL PROPERTIES				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	225
FLAMMABILITY PROPERTIES				
Flammability	0.4mm	UL 94	class	V-0
Flammability	0.8mm	UL 94	class	V-0
Glow Wire Flammability Index	1mm	IEC 60695-2-12	°C	960
Glow Wire Flammability Index	2mm	IEC 60695-2-12	°C	960
Glow Wire Ignition Temperature	1mm	IEC 60695-2-13	°C	750
Glow Wire Ignition Temperature	2mm	IEC 60695-2-13	°C	750
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
ELECTRICAL PROPERTIES				
Volume Resistivity	500V	IEC 62631-3-1	Ohm*m	1E13
Surface Resistivity	500V	IEC 62631-3-2	Ohm	1E12
Comparative Tracking Index	Sol.A	IEC 60112	V	600

1: Temperature [°C] / Load [kg]

