

RADIFLAM B N100 HF 100 NT

PRELIMINARY

DESCRIPTION

PBT flame retardant injection moulding grade, halogen and red phosphorus free. Natural colour.

Suitable for parts requiring fire retardancy Good electrical insulating properties. Rated V-0 according to UL-94.

ISO 1043: PBT 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 LX23200

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	1330
Melt Flow Rate	ISO 1133	g/10min	21
MECHANICAL PROPERTIES			
Tensile Modulus	ISO 527-2/1A	MPa	2900
Stress at Yield	ISO 527-2/1A	MPa	38
Yield Strain	ISO 527-2/1A	%	3
Nominal Strain at Break	ISO 527-2/1A	%	7.5
Charpy Impact Strength	ISO 179/1eU	kJ/m ²	27
Charpy Notched Impact Strength	ISO 179/1eA	kJ/m ²	3.1
THERMAL PROPERTIES			
Melting Temperature	ISO 11357-1/-3	°C	225
FLAMMABILITY PROPERTIES			
Flammability	UL 94	class	V-0
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Glow Wire Flammability Index	IEC 60695-2-12	°C	960
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Glow Wire Ignition Temperature	IEC 60695-2-13	°C	700
Glow Wire Ignition Temperature	IEC 60695-2-13	°C	700
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
Comparative Tracking Index	IEC 60112	V	600

1: Temperature [°C] / Load [kg]

