

PRODUCT INFORMATION

RADIFLAM B RV300K AE 375 BK

PROVISIONAL

DESCRIPTION

PBT flame retardant injection moulding grade. 30% glass fiber reinforced. Black colour.

Suitable for parts requiring fire retardancy along with high stiffness and good mechanical resistance. Rated V-0 according to UL-94.

ISO 1043: PBT GF30 FR(17)

THE CHARACTERISTICS SHOWN HERE ARE PROVISIONAL AND REFLECT THE AVERAGE VALUES OF PROPERTIES MEASURED OVER A LIMITED NUMBER OF PRODUCTION CAMPAIGNS

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. File number: E116324 www.ul.com

ROHS compliant 2011/65/UE and following amendments

TECHNICAL DATA SHEET

RADIFLAM B RV300K AE 375 BK

PROPERTY		STANDARD	UNIT	VALUE
<i>PHYSICAL PROPERTIES</i>				
Density		ISO 1183	kg/m ³	1660
Melt Flow Rate	250/2.16 ^[1]	ISO 1133	g/10min	3.5
Moulding shrinkage - Parallel / Normal	270/80/60 ^[2]	ISO 294-4	%	0.4 / 0.9
<i>MECHANICAL PROPERTIES</i>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10700
Stress at Break	5mm/min	ISO 527-2/1A	MPa	130
Strain at Break	5mm/min	ISO 527-2/1A	%	2.2
Flexural Modulus	2mm/min	ISO 178	MPa	9700
Flexural Strength	2mm/min	ISO 178	MPa	205
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	50
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	9
<i>THERMAL PROPERTIES</i>				
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	225
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	205
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	220
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	210
<i>FLAMMABILITY PROPERTIES</i>				
Flammability	0.8mm	UL 94	class	V-0
Flammability	0.4mm	UL 94	class	V-0
Glow Wire Flammability Index	1mm	IEC 60695-2-1/2	°C	960
Glow Wire Flammability Index	2mm	IEC 60695-2-1/2	°C	960
Automotive Interior Flammability	3mm	ISO 3795	mm/min	0
<i>ELECTRICAL PROPERTIES</i>				
Volume Resistivity	500V	IEC 60093	Ohm*m	1E13
Surface Resistivity	500V	IEC 60093	Ohm	1E12
Comparative Tracking Index	Sol.A	IEC 60112	-	250

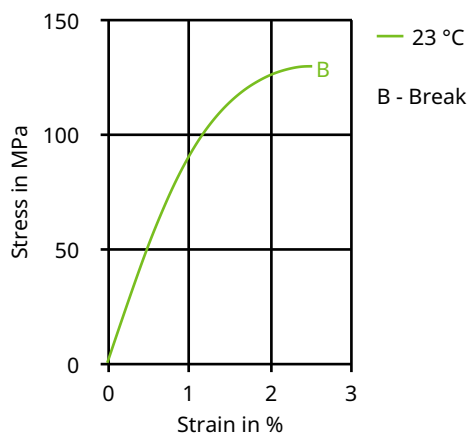
1: Temperature [°C] / Load [kg] 2: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

TECHNICAL DATA SHEET

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Diagrams

Stress-strain



Secant modulus-strain

