

RADIFLAM B RV300K AE 375 NER 5889

Material code Colour code

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(16+62)

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.

Processing Parameters

Melt Temperature:	Mold Temperature:	Injection Speed:
250 ÷ 280°C	80 ÷ 90°C	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

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PROPERTY		STANDARD	UNIT	VALUE
<i>Physical Properties</i>				
Density		ISO 1183	Kg/m ³	1660
Moulding shrinkage – Parallel / Normal	270/80/60*	ISO 294-4	%	0,4 / 0,9
Melt Flow Rate	250°C / 2,16kg	ISO 1133	g/10'	4
<i>Mechanical Properties</i>				
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10650
Stress at Break	5mm/min	ISO 527-2/1A	MPa	135
Strain at Break	5mm/min	ISO 527-2/1A	%	2
Flexural Modulus	2mm/min	ISO 178	MPa	9700
Flexural Strength	2mm/min	ISO 178	MPa	195
Charpy Impact Strength	+23°C	ISO 179/1 eU	KJ/m ²	55
Charpy Notched Impact Strength	+23°C	ISO 179/1 eA	KJ/m ²	9
<i>Thermal Properties</i>				
Melting Temperature	10°C/min	ISO 11357-1-3	°C	225
Heat Deflection Temperature	1.8 MPa	ISO 75/2 A f	°C	205
Heat Deflection Temperature	0.45 MPa	ISO 75/2 B f	°C	220
Vicat Softening Temperature	50°C/h	ISO 306/B50 50N	°C	210
<i>Flammability Properties</i>				
Flammability	0.8mm	UL 94	class	V0
Glow Wire Flammability Index	1mm / 2mm	IEC 60695-2-1/2	°C/mm	960 / 960
Automotive interior flammability	Burn rate	FMVSS302	mm/min	0

*Melt Temp [°C] / Mold Temp [°C] / Cavity press [MPa]

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www.radicigroup.com/plastics - info.plastics@radicigroup.com

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