

PRODUCT INFORMATION



RADIFLAM S RV150 HF 3739 BK

DESCRIPTION

PA6 flame retardant injection moulding grade, halogen and red phosphorus free. 15% glass fiber reinforced. Deep Black colour.

Suitable for parts requiring fire retardancy along with improved stiffness and mechanical resistance. Good electrical insulating properties. Rated V-0 if tested in accordance with UL-94 method.

ISO 1043: PA6 GF15 FR(40+70)

REGIONAL AVAILABILITY: North America

MATERIAL HANDLING AND PROCESSING

The material is delivered in moisture-proof packaging ready for processing. Maximum recommended water content for best processing is 0.10%. Typical conditions with a desiccant drier: temperature 80 $^{\circ}$ C, dew point -20 $^{\circ}$ 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	Mold Temperature	
240 - 280°C	60 - 80°C	

Injection Speed medium

PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet ROHS compliant 2011/65/UE and following amendments

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TECHNICAL DATA SHEET

RADIFLAM S RV150 HF 3739 BK

PROPERTY		STANDARD	UNIT	VALUE DAM*	Cond**
PHYSICAL PROPERTIES					
Density		ISO 1183	kg/m³	1290	
MECHANICAL PROPERTIES					
Tensile Modulus Stress at Break Strain at Break Flexural Modulus Flexural Strength Charpy Impact Strength Charpy Notched Impact Strength Izod Notched Impact Strength	1mm/min 5mm/min 2mm/min 2mm/min +23°C +23°C -30°C +23°C	ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 178 ISO 178 ISO 179/1eU ISO 179/1eA ISO 179/1eA ISO 179/1eA	MPa MPa MPa MPa kJ/m ² kJ/m ² kJ/m ²	6300 100 2.9 6300 150 65 7.3 6 7.5	
THERMAL PROPERTIES					
Melting Temperature Heat Deflection Temperature Heat Deflection Temperature Vicat Softening Temperature Coeff. of Linear Therm. Expansion Coeff. of Linear Therm. Expansion	10°C/min 1.80 MPa 0.45 MPa 50°C/h 50N parallel, 23°C-55°C normal, 23°C-55°C	ISO 11357-1/-3 ISO 75/2Af ISO 75/2Bf ISO 306 ISO 11359-1/-2 ISO 11359-1/-2	°C °C °C E-6/K E-6/K	220 179 209 195 22.4 196	
FLAMMABILITY PROPERTIES					
Flammability	0.8mm	UL 94	class	V-0	

*: DAM = Dry As Moulded state according to ISO 16396-2 **: Cond = Conditioned state similar to ISO 1110

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