

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 ° C, dew point -20 ° 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
240 - 280°C

Mold Temperature
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

TECHNICAL DATA SHEET

RADIFLAM S RV150 HF 3739 BK

PROPERTY	STANDARD	UNIT	VALUE	DAM*	Cond**
PHYSICAL PROPERTIES					
Density	ISO 1183	kg/m ³	1290		
MECHANICAL PROPERTIES					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	6300	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	100	
Strain at Break	5mm/min	ISO 527-2/1A	%	2.9	
Flexural Modulus	2mm/min	ISO 178	MPa	6300	
Flexural Strength	2mm/min	ISO 178	MPa	150	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	65	
Charpy Notched Impact Strength	+23°C	ISO 179/1eA	kJ/m ²	7.3	
Charpy Notched Impact Strength	-30°C	ISO 179/1eA	kJ/m ²	6	
Izod Notched Impact Strength	+23°C	ISO 180/1A	kJ/m ²	7.5	
THERMAL PROPERTIES					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	179	
Heat Deflection Temperature	0.45 MPa	ISO 75/2Bf	°C	209	
Vicat Softening Temperature	50°C/h 50N	ISO 306	°C	195	
Coeff. of Linear Therm. Expansion	parallel, 23°C-55°C	ISO 11359-1/-2	E-6/K	22.4	
Coeff. of Linear Therm. Expansion	normal, 23°C-55°C	ISO 11359-1/-2	E-6/K	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