

PRODUCT INFORMATION

RADIFLAM S RV300 HF 148 NT

PRELIMINARY

DESCRIPTION

PA6 flame retardant injection moulding grade, halogen and red phosphorus free. 30% glass fiber reinforced. Natural colour.

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

ISO 1043: PA6 GF30 FR(40)

THE CHARACTERISTICS SHOWN HERE MUST BE CONSIDERED PRELIMINARY AND INDICATIVE FOR A PRODUCT AT DEVELOPMENTAL STAGE

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 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
260 - 290°C

Mold Temperature
80 - 100°C

Injection Speed
medium-high

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 RV300 HF 148 NT

PROPERTY		STANDARD	UNIT	VALUE	
				DAM*	Cond**
<i>PHYSICAL PROPERTIES</i>					
Density		ISO 1183	kg/m ³	1420	
<i>MECHANICAL PROPERTIES</i>					
Tensile Modulus	1mm/min	ISO 527-2/1A	MPa	10550	
Stress at Break	5mm/min	ISO 527-2/1A	MPa	140	
Strain at Break	5mm/min	ISO 527-2/1A	%	3.8	
Flexural Modulus	2mm/min	ISO 178	MPa	10000	
Flexural Strength	2mm/min	ISO 178	MPa	235	
Charpy Impact Strength	+23°C	ISO 179/1eU	kJ/m ²	75	
<i>THERMAL PROPERTIES</i>					
Melting Temperature	10°C/min	ISO 11357-1/-3	°C	220	
Heat Deflection Temperature	1.80 MPa	ISO 75/2Af	°C	200	
<i>FLAMMABILITY PROPERTIES</i>					
Flammability	0.8mm	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	1E11
Surface Resistivity	500V	IEC 60093	Ohm	1E12	1E10
Electric Strength		IEC 60243-1	kV/mm	45	44

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