



#### PRODUCT INFORMATION

## RADIFLAM A RV250 AF 830 BR

#### DESCRIPTION

PA66 flame retardant injection moulding grade with red phosphorus. 25% glass fibre reinforced. Natural red brick colour.

Suitable for parts requiring fire retardancy along with medium stiffness and good mechanical resistance. Typically employed for electrical components. Rated V-0 at 0.75 mm according to UL-94.

ISO 1043: PA66 GF25 FR(52+72)

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. The material can not be used to produce parts operating in hot and humid environments (> 70°C / 160°F), or in contact with hot water or overheated steam.

Injection Molding Processing Parameters

Melt Temperature Mold Temperature 280 - 300°C 80 - 100°C

Injection Speed medium-high

#### PRODUCT SAFETY AND APPROVALS

For safety instruction please refer to Material Safety Data Sheet Underwriters Laboratories Inc. certified material www.ul.com ROHS compliant 2011/65/EU and following amendments

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### **TECHNICAL DATA SHEET**

# RADIFLAM A RV250 AF 830 BR

PROPERTY		STANDARD	UNIT	VALUE DAM* Cond*
PHYSICAL PROPERTIES				
Density Moulding shrinkage - Parallel / Normal Water Absorption, immersion at 23°C Moisture Absorption 23°C - 50%RH	280 /80 /60 <sup>[1]</sup> 2mm 2mm	ISO 1183 ISO 294-4 ISO 62 ISO 62	kg/m³ % % %	1380 0.5 / 1.2 5.5 1.2
MECHANICAL PROPERTIES				
Tensile Modulus Stress at Break Strain at Break Flexural Modulus Flexural Strength Charpy Impact Strength Charpy Impact Strength Charpy Notched Impact Strength Charpy Notched Impact Strength	1mm/min 5mm/min 5mm/min 2mm/min 2mm/min +23°C -30°C +23°C -30°C	ISO 527-2/1A ISO 527-2/1A ISO 527-2/1A ISO 178 ISO 178 ISO 179/1eU ISO 179/1eU ISO 179/1eA ISO 179/1eA	MPa MPa % MPa MPa kJ/m² kJ/m² kJ/m²	8200 5300 135 90 2.9 3.2 7400 200 65 50 7.2 6
THERMAL PROPERTIES				
Melting Temperature Heat Deflection Temperature Heat Deflection Temperature Vicat Softening Temperature	10°C/min 1.80 MPa 0.45 MPa 50°C/h 50N	ISO 11357-1/-3 ISO 75/2Af ISO 75/2Bf ISO 306	°C °C °C	260 230 255 240
FLAMMABILITY PROPERTIES				
Flammability Glow Wire Flammability Index Glow Wire Flammability Index Glow Wire Ignition Temperature Glow Wire Ignition Temperature Automotive Interior Flammability	-mm 1mm 2mm 1mm 2mm 3mm	UL 94 IEC 60695-2-12 IEC 60695-2-12 IEC 60695-2-13 IEC 60695-2-13 ISO 3795	class °C °C °C °C °C mm/min	V-0 960 960 725 750
ELECTRICAL PROPERTIES				
Volume Resistivity Surface Resistivity Comparative Tracking Index	500V 500V Sol.A	IEC 60093 IEC 60093 IEC 60112	Ohm*m Ohm V	1E13 1E11 1E12 1E10 600

<sup>\*:</sup> DAM = Dry As Moulded state according to ISO 16396-2 \*\*: Cond = Conditioned state similar to ISO 1110 1: Melt Temperature [°C] / Mold Temperature [°C] / Cavity Pressure [MPa]

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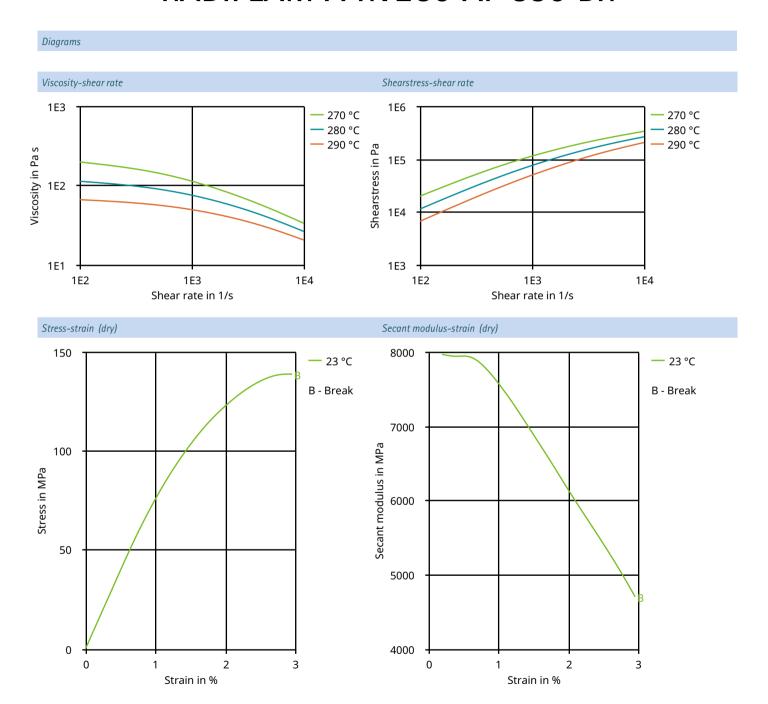
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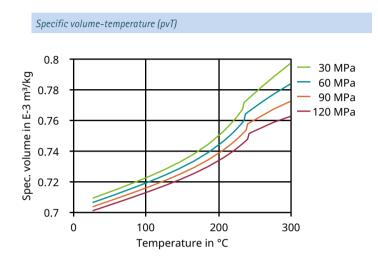
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