

Radiflam® A RV250 AF 375 NER

Polyamide 66

Radici Plastics

Message:

PA66 flame retardant injection moulding grade with red phosphorus. 25% glass fiber reinforced. Improved impact properties. Black colour.

Suitable for parts requiring fire retardancy along with medium stiffness and good mechanical resistance.

Rated V-0 at 0.75 mm according to UL-94.

ISO 1043 : PA66 GF25 FR(52+72)

General Information				
UL YellowCard		E148796-101473214	E148796-101473225	E195505-101510621
		E195508-101520612		
Filler / Reinforcement		Glass Fiber,25% Filler by Weight		
Additive		Flame Retardant		
Features		Filled		
		Flame Retardant		
		Good Stiffness		
RoHS Compliance		RoHS Compliant		
UL File Number		E116324		
Appearance		Black		
Processing Method		Injection Molding		
Resin ID (ISO 1043)		PA66 GF25 FR(52+72)		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.36	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	5.5	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	1.2	--	%	
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	7900	5200	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	115	90.0	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.2	3.5	%	ISO 527-2/1A/5
Flexural Modulus ¹	6900	--	MPa	ISO 178
Flexural Stress ²	175	--	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength				ISO 179/1eA
-30°C	9.0	--	kJ/m ²	
23°C	12	16	kJ/m ²	

Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	60	--	kJ/m ²	
23°C	65	70	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (1.8 MPa, Unannealed)	230	--	°C	ISO 75-2/Af
Vicat Softening Temperature	240	--	°C	ISO 306/B50
Melting Temperature	260	--	°C	ISO 11357
Electrical	Dry	Conditioned	Unit	Test Method
Surface Resistivity	1.0E+12	1.0E+10	ohms	IEC 60093
Volume Resistivity	1.0E+15	1.0E+13	ohms·cm	IEC 60093
Comparative Tracking Index	400	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	V-0	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	960	--	°C	
2.00 mm	960	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	725	--	°C	
2.00 mm	750	--	°C	
Injection	Dry	Unit		
Drying Temperature - Desiccant Dryer	80.0		°C	
Drying Time - Desiccant Dryer	2.0 to 4.0		hr	
Dew Point - Desiccant Dryer	< -20.0		°C	
Suggested Max Moisture	0.10		%	
Processing (Melt) Temp	280 to 300		°C	
Mold Temperature	80.0 to 100		°C	
Injection Rate	Moderate-Fast			
NOTE				
1.	2.0 mm/min			
2.	2.0 mm/min			

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

