

Radilon® A RV250KB 856 BRU

Polyamide 66

Radici Plastics

Message:

PA66 25% glass fiber reinforced injection moulding grade. Heat stabilized. Natural brown colour.

Suitable for parts requiring medium stiffness, intended for use in contact with oil and grease at high temperature.

ISO 1043 : PA66-T GF25

General Information				
Filler / Reinforcement	Glass Fiber,25% Filler by Weight			
Additive	Heat Stabilizer			
Features	Good Stiffness			
	Grease Resistant			
	Heat Stabilized			
	Oil Resistant			
RoHS Compliance	RoHS Compliant			
Appearance	Brown			
Processing Method	Injection Molding			
Resin ID (ISO 1043)	PA66-T GF25			
Physical	Dry	Conditioned	Unit	Test Method
Density	1.32	--	g/cm ³	ISO 1183
Water Absorption				ISO 62
Saturation, 23°C, 2.00 mm	7.4	--	%	
Equilibrium, 23°C, 2.00 mm, 50% RH	2.0	--	%	
Viscosity Number (H2SO4 (Sulphuric Acid))	130	--	cm ³ /g	ISO 307
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	8300	5800	MPa	ISO 527-2/1A/1
Tensile Stress (Break)	165	--	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	3.3	6.0	%	ISO 527-2/1A/5
Flexural Modulus ¹	7200	4200	MPa	ISO 178
Flexural Stress ²	245	155	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	11	--	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU

-30°C	55	--	kJ/m ²	
23°C	60	--	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	250	--	°C	ISO 75-2/Bf
Vicat Softening Temperature	250	--	°C	ISO 306/B50
Melting Temperature ³	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	600	--	V	IEC 60112
Flammability	Dry	Conditioned	Unit	Test Method
Burning Rate	0.0	--	mm/min	FMVSS 302
Flame Rating (0.800 mm)	HB	--		UL 94
Glow Wire Flammability Index				IEC 60695-2-12
1.00 mm	700	--	°C	
2.00 mm	675	--	°C	
Glow Wire Ignition Temperature				IEC 60695-2-13
1.00 mm	725	--	°C	
2.00 mm	700	--	°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	0.15		%	
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			
3.	10°C/min			

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