

Radilon® BGV 50 Black

Polyamide 6

Radici Plastics

Message:

Radilon® BGV 50 Black is a Polyamide 6 (Nylon 6) material filled with 50% glass fiber. It is available in Africa & Middle East, Asia Pacific, Europe, Latin America, or North America.

Important attributes of Radilon® BGV 50 Black are:

Flame Rated

Heat Resistant

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Features		Good Heat Aging Resistance		
Appearance		Black		
Resin ID (ISO 1043)		PA6-GF50		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.55	--	g/cm ³	ISO 1183
Water Absorption ¹ (Equilibrium, 23°C, 1.00 mm, 50% RH)	1.3 to 1.7	--	%	ISO 62
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	15500	10700	MPa	ISO 527-2/1A/1
Tensile Stress (Yield)	210	145	MPa	ISO 527-2/1A/5
Tensile Strain (Break)	2.0	4.0	%	ISO 527-2/1A/5
Flexural Modulus ²	14500	8900	MPa	ISO 178
Flexural Stress ³	310	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	25	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength				ISO 179/1eU
-30°C	82	--	kJ/m ²	
23°C	90	100	kJ/m ²	
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	220	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	215	--	°C	ISO 75-2/A
Melting Temperature ⁴	220	--	°C	ISO 3146
Flammability	Dry	Conditioned		Test Method
Flame Rating	HB	--		UL 94
NOTE				
1.	Saturation			

2.	2.0 mm/min
3.	2.0 mm/min
4.	10°C/min

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Recommended distributors for this material

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