

UNITIKA Nylon 66 B2040G50

Polyamide 66

UNITIKA Plastics Division

Message:

UNITIKA Nylon 66 B2040G50 is a Polyamide 66 (Nylon 66) material filled with 50% glass fiber. It is available in Asia Pacific or North America.

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information				
Filler / Reinforcement		Glass Fiber,50% Filler by Weight		
Uses		Automotive Electronics		
		Electrical Parts		
		Electrical/Electronic Applications		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.57	1.57	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.60	0.60	%	
Flow : 3.20 mm	0.20	0.20	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.4	1.4	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	120		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	16700	11200	MPa	ISO 527-2
Tensile Stress (Break)	220	165	MPa	ISO 527-2
Tensile Strain (Break)	2.5	3.0	%	ISO 527-2
Flexural Modulus	13500	10300	MPa	ISO 178
Flexural Stress	360	230	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	16	20	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	95	100	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	252	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	233	--	°C	ISO 75-2/A
CLTE - Flow	2.0E-5	2.0E-5	cm/cm/°C	ISO 11359-2

Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+14	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	35	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.30	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	--		IEC 60250
Comparative Tracking Index	600	600	V	IEC 60112

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