

UNITIKA Nylon 66 BV2120G30

Polyamide 66

UNITIKA Plastics Division

Message:

UNITIKA Nylon 66 BV2120G30 is a Polyamide 66 (Nylon 66) material filled with 30% glass fiber. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 66 BV2120G30 are:

Flame Rated

Flame Retardant

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information				
UL YellowCard		E47924-240007	E47924-240008	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		Flame Retardant		
Uses		Automotive Electronics		
		Electrical Parts		
		Electrical/Electronic Applications		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.65	1.65	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.70	0.70	%	
Flow : 3.20 mm	0.30	0.30	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.90	0.90	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	114	102		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	12200	8700	MPa	ISO 527-2
Tensile Stress (Break)	150	113	MPa	ISO 527-2
Tensile Strain (Break)	2.1	2.3	%	ISO 527-2
Flexural Modulus	11000	8200	MPa	ISO 178
Flexural Stress	250	170	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	8.0	11	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	45	50	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method

Heat Deflection Temperature				
0.45 MPa, Unannealed	256	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	238	--	°C	ISO 75-2/A
CLTE - Flow	3.0E-5	3.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+15	--	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	28	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60	--		IEC 60250
Dissipation Factor (1 MHz)	0.020	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-0	V-0		UL 94

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