

UNITIKA Nylon 66 BV2120

Polyamide 66
UNITIKA Plastics Division

Message:

UNITIKA Nylon 66 BV2120 is a Polyamide 66 (Nylon 66) material. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 66 BV2120 are:

Flame Rated
Flame Retardant

Typical applications include:

Electrical/Electronic Applications
Automotive

General Information				
UL YellowCard		E47924-240006		
Features		Flame Retardant		
Uses		Automotive Electronics		
		Electrical Parts		
		Electrical/Electronic Applications		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.33	1.33	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.7	1.7	%	
Flow : 3.20 mm	1.5	1.5	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	1.5	1.5	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	115	96		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	3300	1600	MPa	ISO 527-2
Tensile Stress (Break)	77.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	3.0	4.8	%	ISO 527-2
Flexural Modulus	3200	1500	MPa	ISO 178
Flexural Stress	120	66.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	5.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	41	56	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				

0.45 MPa, Unannealed	180	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	108	--	°C	ISO 75-2/A
CLTE - Flow	7.0E-5	7.0E-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)	25	--	kV/mm	IEC 60243-1
Dielectric Constant (1 MHz)	3.60	--		IEC 60250
Dissipation Factor (1 MHz)	0.010	--		IEC 60250
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.750 mm)	V-0	V-0		UL 94

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