

UNITIKA Nylon 6 EX-8406G30

Polyamide 6

UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 EX-8406G30 is a Polyamide 6 (Nylon 6) material filled with 30% glass fiber. It is available in Asia Pacific or North America.

Important attributes of UNITIKA Nylon 6 EX-8406G30 are:

Flame Rated

Impact Resistant

Typical applications include:

Automotive

Construction Applications

Housings

General Information				
UL YellowCard		E47924-239985	E47924-239986	
Filler / Reinforcement		Glass Fiber,30% Filler by Weight		
Features		High Impact Resistance		
Uses		Automotive Applications		
		Automotive Electronics		
		Automotive Under the Hood		
		Construction Applications		
		Electrical Housing		
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	0.70	0.70	%	
Flow : 3.20 mm	0.40	0.40	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	2.0	2.0	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	117	106		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	9000	5900	MPa	ISO 527-2
Tensile Stress (Break)	173	110	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.4	%	ISO 527-2
Flexural Modulus	8100	5100	MPa	ISO 178
Flexural Stress	235	150	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	15	25	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	91	87	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	215	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	200	--	°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
Electric Strength (1.00 mm)	42	--	kV/mm	IEC 60243-1
Flammability	Dry	Conditioned	Unit	Test Method
Flame Rating (0.840 mm)	HB	HB		UL 94

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