

UNITIKA Nylon 6 A3130HR-25

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A3130HR-25 is a Polyamide 6 (Nylon 6) material filled with 25% mineral. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A3130HR-25: Flame Rated.

Typical applications include:

Automotive
Construction Applications
Housings

General Information				
UL YellowCard		E47924-100685065		
Filler / Reinforcement		Mineral,25% Filler by Weight		
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/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.60 to 1.0	0.60 to 1.0	%	
Flow : 3.20 mm	0.60 to 1.0	0.60 to 1.0	%	
Water Absorption				ISO 62
23°C, 24 hr	1.4	1.4	%	
Equilibrium, 23°C, 50% RH	2.1	2.1	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	98		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	5400	2700	MPa	ISO 527-2
Tensile Stress (Break)	70.0	47.0	MPa	ISO 527-2
Tensile Strain (Break)	3.5	4.8	%	ISO 527-2
Flexural Modulus	4200	2200	MPa	ISO 178
Flexural Stress	108	60.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	5.0	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	52	65	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	195	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	111	--	°C	ISO 75-2/A
CLTE - Flow	5.0E-5	5.0E-5	cm/cm/°C	ISO 11359-2
Flammability	Dry	Conditioned		Test Method
Flame Rating (0.750 mm)	HB	HB		UL 94

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