

UNITIKA Nylon 6 A3130

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 A3130 is a Polyamide 6 (Nylon 6) material filled with 35% mineral. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 A3130: Flame Rated.

Typical applications include:

- Automotive
- Construction Applications
- Housings

General Information				
UL YellowCard		E47924-239977		
Filler / Reinforcement		Mineral,35% 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	1.40	1.40	g/cm³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.80	0.80	%	
Flow : 3.20 mm	0.40	0.40	%	
Water Absorption				ISO 62
23°C, 24 hr	1.2	1.2	%	
Equilibrium, 23°C, 50% RH	1.8	1.8	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	119	103		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	6400	3200	MPa	ISO 527-2
Tensile Stress (Break)	70.0	50.0	MPa	ISO 527-2
Tensile Strain (Break)	2.9	3.8	%	ISO 527-2
Flexural Modulus	6300	3300	MPa	ISO 178
Flexural Stress	118	70.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	3.0	6.0	kJ/m²	ISO 179

Charpy Unnotched Impact Strength	41	48	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	196	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	130	--	°C	ISO 75-2/A
CLTE - Flow	5.0E-5	5.0E-5	cm/cm/°C	ISO 11359-2
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	2.0E+15	5.0E+13	ohms·cm	IEC 60093
Electric Strength (1.00 mm)	42	--	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 (0.810 mm)	HB	HB		UL 94

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

