

UNITIKA Nylon 6 EX-1020K

Polyamide 6
UNITIKA Plastics Division

Message:

UNITIKA Nylon 6 EX-1020K is a Polyamide 6 (Nylon 6) material. It is available in Asia Pacific or North America. Primary attribute of UNITIKA Nylon 6 EX-1020K: Conductive.

Typical applications include:

Automotive
Construction Applications
Housings

General Information				
Features		Conductive		
Uses		Automotive Applications Automotive Electronics Automotive Under the Hood Construction Applications Electrical Housing		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.12	1.12	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	1.2	1.2	%	
Flow : 3.20 mm	1.0	1.0	%	
Water Absorption				ISO 62
23°C, 24 hr	1.3	1.3	%	
Equilibrium, 23°C, 50% RH	2.0	2.0	%	
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	110	80		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	2600	1200	MPa	ISO 527-2
Tensile Stress (Yield)	54.0	40.0	MPa	ISO 527-2
Tensile Strain				ISO 527-2
Yield	4.0	--	%	
Break	8.0	12	%	
Flexural Modulus	2500	1100	MPa	ISO 178
Flexural Stress	80.0	38.0	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	7.0	23	kJ/m ²	ISO 179

Charpy Unnotched Impact Strength	55 kJ/m ²	No Break		ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	147	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	66.0	--	°C	ISO 75-2/A
Electrical	Dry	Conditioned	Unit	Test Method
Volume Resistivity	1.0E+3	1.0E+3	ohms·cm	IEC 60093

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