

UNITIKA Nylon 66 E-RUNG60

Polyamide 66

UNITIKA Plastics Division

Message:

UNITIKA Nylon 66 E-RUNG60 is a Polyamide 66 (Nylon 66) material filled with 60% glass fiber. It is available in Asia Pacific or North America.

Typical applications include:

Electrical/Electronic Applications

Automotive

General Information				
Filler / Reinforcement		Glass Fiber,60% Filler by Weight		
Uses		Automotive Electronics		
		Electrical Parts		
		Electrical/Electronic Applications		
Forms		Pellets		
Physical	Dry	Conditioned	Unit	Test Method
Density	1.73	1.73	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 3.20 mm	0.30	0.30	%	
Flow : 3.20 mm	0.10	0.10	%	
Water Absorption (Equilibrium, 23°C, 50% RH)	0.70	0.70	%	ISO 62
Hardness	Dry	Conditioned	Unit	Test Method
Rockwell Hardness (R-Scale)	120	--		ISO 2039-2
Mechanical	Dry	Conditioned	Unit	Test Method
Tensile Modulus	19000	15000	MPa	ISO 527-2
Tensile Stress (Break)	240	215	MPa	ISO 527-2
Tensile Strain (Break)	1.8	2.3	%	ISO 527-2
Flexural Modulus	18600	14700	MPa	ISO 178
Flexural Stress	370	320	MPa	ISO 178
Impact	Dry	Conditioned	Unit	Test Method
Charpy Notched Impact Strength	16	17	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength	80	80	kJ/m ²	ISO 179
Thermal	Dry	Conditioned	Unit	Test Method
Heat Deflection Temperature				
0.45 MPa, Unannealed	250	--	°C	ISO 75-2/B
1.8 MPa, Unannealed	225	--	°C	ISO 75-2/A
CLTE - Flow	2.5E-5	2.5E-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)	35	--	kV/mm	IEC 60243-1

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