

Nylux 66-NAT

Polyamide 66

KMI Group, Inc.

Message:

Nylux66-NAT is a general purpose PA66 grade well suited for injection molding and extrusion applications.

General Information			
Features	General		
Uses	General		
Appearance	Natural color		
Processing Method	Extrusion		
	Injection molding		

Physical	Nominal Value	Unit	Test Method
Density	1.14	g/cm ³	ISO 1183
Molding Shrinkage			ISO 294-4
Transverse flow: 2.00mm	1.8	%	ISO 294-4
Flow: 2.00mm	1.9	%	ISO 294-4
Water Absorption			ISO 62
23°C, 24 hr	1.4	%	ISO 62
Equilibrium, 23°C, 50% RH	2.7	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2
Tensile Stress (Yield)	82.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	4.2	%	ISO 527-2
Fracture	50	%	ISO 527-2
Flexural Modulus	2900	MPa	ISO 178
Flexural Stress	95.0	MPa	ISO 178

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	5.5	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Notched Izod Impact (23°C)	5.4	kJ/m ²	ISO 180

Thermal	Nominal Value	Unit	
Heat Deflection Temperature (0.45 MPa, Unannealed)	204	°C	
Melting Temperature	261	°C	
CLTE - Flow	8.0E-5	cm/cm/°C	

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	3.0E+14	ohms	IEC 60093

Volume Resistivity	4.0E+14	ohms·cm	IEC 60093
Dielectric Strength	32	kV/mm	IEC 60243-1
Comparative Tracking Index	600	V	IEC 60112

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