

KMI PA KM6-4700

Polyamide 6
KMI Group, Inc.

Message:
KM6-4700 is a low viscosity general purpose, extrusion PA6 grade well suited for compounding.

General Information			
Features	Low viscosity		
	General		
Uses	Composite		
	General		
Processing Method	Composite		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	1.13	g/cm ³	ISO 1183
Melt Volume-Flow Rate (MVR) (275°C/5.0 kg)	130	cm ³ /10min	ISO 1133
Water Absorption			ISO 62
Saturated, 23°C	9.5	%	ISO 62
Equilibrium, 23°C, 50% RH	2.6	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3000	MPa	ISO 527-2
Tensile Stress (Yield)	90.0	MPa	ISO 527-2
Tensile Strain (Yield)	4.5	%	ISO 527-2
Nominal Tensile Strain at Break	15	%	ISO 527-2
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.0	kJ/m ²	ISO 179
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179
Thermal	Nominal Value	Unit	
Heat Deflection Temperature (1.8 MPa, Unannealed)	65.0	°C	
Melting Temperature	220	°C	
CLTE - Flow	8.5E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	IEC 60093
Dielectric Constant			IEC 60250
100 Hz	4.00		IEC 60250
1 MHz	3.50		IEC 60250

Dissipation Factor		IEC 60250
100 Hz	0.010	IEC 60250
1 MHz	0.023	IEC 60250
Comparative Tracking Index	600	V IEC 60112

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