

KMI 6017K-04

Polyolefin
KMI Group, Inc.

Message:
Injection molding grade. Highest heat deflection temperature among the KMI product family. Suitable for applications requiring short-term, high temperature exposure.

General Information			
Features	Copolymer		
	Heat resistance, high		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.02	g/cm³	ISO 1183
Melt Mass-Flow Rate (MFR)	1.4	g/10 min	Calculated
Melt Volume-Flow Rate (MVR) (260°C/2.16 kg)	1.50	cm³/10min	ISO 1133
Water Absorption (Saturation, 23°C)	0.010	%	ISO 62
Films	Nominal Value	Unit	Test Method
Tensile Modulus	3030	MPa	ISO 527-3/1
Tensile Stress (Break)	57.9	MPa	ISO 527-3/5
Tensile Elongation (Break)	2.4	%	ISO 527-3/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	1.7	kJ/m²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	15	kJ/m²	ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	170	°C	ISO 75-2/B
Glass Transition Temperature ¹	178	°C	ISO 11357-2
Vicat Softening Temperature	178	°C	ISO 306/B50
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Relative Permittivity			IEC 60250
1 kHz	2.35		IEC 60250
10 kHz	2.35		IEC 60250
1.00 GHz	2.30		IEC 60250
Dissipation Factor (1.00 GHz)	6.0E-5		IEC 60250
Comparative Tracking Index	> 600	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.6 mm)	HB		UL 94
Optical	Nominal Value	Unit	Test Method

Refractive Index	1.530		ISO 489
Transmittance	91.0	%	ISO 13468-2
NOTE			
1.	10°C/min		

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