

PRODUCT INFORMATION

Mineral Reinforced Grade

KOPA[®] KN173MC

Polyamide 6 Compound resin,
Low deformation, high thermal resistant

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.27
Shrinkage	ASTM D955	%	0.8-1.0
Water Absorption 23℃, Equilibrium 60%RH	ASTM D570	%	0.7
Thermal			
Melting Point	ASTM D3418	℃	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		℃	200
HDT/A 1.82 MPa (18.6 kg/cm ²)		℃	175
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·℃	0.4
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23℃	ASTM D638	MPa (kg/cm ²)	60(610)
Tensile Elongation 23℃	ASTM D638	%	25
Flexural Strength 23℃	ASTM D790	MPa (kg/cm ²)	98(1000)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm ²)	2844(29000)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	196(20)
Rockwell Hardness R scale	ASTM D785	g/cc	118
Electrical			
Arc Resistance	ASTM D495	sec	130
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.5
Dielectric Strength	ASTM D149	KV/mm	22

**KOLON PLASTICS, Inc.**