

PRODUCT INFORMATION

Glass Fiber Reinforced Grade

KOPA[®] KN133G45

Polyamide 6 Compound resin,
Middle viscosity, G/F 45% reinforced

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.46
Shrinkage	ASTM D955	%	0.5-0.6
Water Absorption 23℃, Equilibrium 60%RH	ASTM D570	%	0.3
Thermal			
Melting Point	ASTM D3418	℃	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		℃	210
HDT/A 1.82 MPa (18.6 kg/cm ²)		℃	205
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·℃	0.3
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23℃	ASTM D638	MPa (kg/cm ²)	196(2000)
Tensile Elongation 23℃	ASTM D638	%	5
Flexural Strength 23℃	ASTM D790	MPa (kg/cm ²)	318(3250)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm ²)	11200(114000)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	161(15)
Rockwell Hardness R scale	ASTM D785	g/cc	120
Electrical			
Arc Resistance	ASTM D495	sec	130
Dielectric Constant	ASTM D150	10 ⁶ Hz	3
Dielectric Strength	ASTM D149	KV/mm	21

**KOLON PLASTICS, Inc.**