

PRODUCT INFORMATION

Glass fiber reinforced Grade

KOPA[®] KN133G50GR

Polyamide 6 resin

Glass fiber reinforced, Black grade

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.50
Shrinkage	ASTM D955	%	0.4~0.5
Water Absorption 23°C, Equilibrium 60%RH	ASTM D570	%	0.3
Thermal			
Melting Point	ASTM D3418	°C	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	212
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	210
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.3
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23°C	ASTM D638	MPa (kg/cm ²)	205 (2,100)
Tensile Elongation 23°C	ASTM D638	%	4
Flexural Strength 23°C	ASTM D790	MPa (kg/cm ²)	335 (3,400)
Flexural Modulus 23°C	ASTM D790	MPa (kg/cm ²)	12,250 (125,000)
Notched Izod Impact Strength 23°C	ASTM D256	J/m (kg cm/cm)	176 (18)
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

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