

PRODUCT INFORMATION

Glass fiber reinforced Grade

KOPA[®] KN133G33BL

Polyamide 6 resin

Glass fiber reinforced, Black

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.39
Shrinkage	ASTM D955	%	0.6-0.08
Water Absorption 23 °C, Equilibrium 60%RH	ASTM D570	%	0.4
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	210
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	205
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)	176(1800)
Tensile Elongation 23 °C	ASTM D638	%	9
Flexural Strength 23 °C	ASTM D790	MPa (kg/cm ²)	284(2900)
Flexural Modulus 23 °C	ASTM D790	MPa (kg/cm ²)	8700(89000)
Notched Izod Impact Strength 23 °C	ASTM D256	J/m (kg·cm/cm)	132(13.5)
Rockwell Hardness R scale	ASTM D785	g/cc	120
Electrical			
Arc Resistance	ASTM D495	sec	130
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.6
Dielectric Strength	ASTM D149	KV/mm	21

**KOLON PLASTICS, Inc.**