

Glass Fiber Reinforced Grade

KOPA®

Polyamide 66 Compound resin,
High strength, UV resistance, Black grade

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.24
Shrinkage		ASTM D955	%	0.5-0.8
Water Absorption	23 °C, Equilibrium 60%RH	ASTM D570	%	0.4
Thermal				
Melting Point		ASTM D3418	°C	255
Heat Deflection Temperature under Load		ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)			°C	245
HDT/A 1.82 MPa (18.6 kg/cm ²)			°C	235
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)	108(1100)
Tensile Elongation	23 °C	ASTM D638	%	5.5
Flexural Strength	23 °C	ASTM D790	MPa (kg/cm ²)	168(1700)
Flexural Modulus	23 °C	ASTM D790	MPa (kg/cm ²)	5680(58000)
Notched Izod Impact Strength	23 °C	ASTM D256	J/m (kg·cm/cm)	29(3)
Rockwell Hardness	R scale	ASTM D785	g/cc	120
Electrical				
Arc Resistance		ASTM D495	sec	135
Dielectric Constant		ASTM D150	10 ⁶ Hz	3.6
Dielectric Strength		ASTM D149	KV/mm	21

