

Hybrid Grade

KOPA[®]

Polyamide 66 Compound resin,
dimensionally stable

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.45
Shrinkage		ASTM D955	%	0.3-0.5
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)	137(1400)
Tensile Elongation	23 °C	ASTM D638	%	6.5
Flexural Strength	23 °C	ASTM D790	MPa (kg/cm ²)	216(2200)
Flexural Modulus	23 °C	ASTM D790	MPa (kg/cm ²)	7649(78000)
Notched Izod Impact Strength	23 °C	ASTM D256	J/m (kg ·cm/cm)	54(5.5)
Rockwell Hardness	R scale	ASTM D785	g/cc	122
Electrical				
Arc Resistance		ASTM D495	sec	135
Dielectric Constant		ASTM D150	10 ⁶ Hz	3.4
Dielectric Strength		ASTM D149	KV/mm	21

