

General Grade

KOPA[®]

Polyamide 6 Compound resin,
High viscosity, wide uses

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.14
Water Absorption	23℃, Equilibrium 60%RH	ASTM D570	%	1.8
Thermal				
Melting Point		ASTM D3418	℃	220
Heat Deflection Temperature under Load		ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)			℃	180
HDT/A 1.82 MPa (18.6 kg/cm ²)			℃	65
Coeff. Of Linear Thermal Expansion		ASTM D696	× 10 ⁻⁴ cm/cm·℃	0.8
Flammability		UL 94		HB
Mechanical				
Tensile Strength	23℃	ASTM D638	MPa (kg/cm ²)	74(760)
Tensile Elongation	23℃	ASTM D638	%	65
Flexural Strength	23℃	ASTM D790	MPa (kg/cm ²)	115(1170)
Flexural Modulus	23℃	ASTM D790	MPa (kg/cm ²)	2675(27300)
Notched Izod Impact Strength	23℃	ASTM D256	J/m (kg·cm/cm)	75(7.7)
Rockwell Hardness	R scale	ASTM D785	g/cc	120
Electrical				
Arc Resistance		ASTM D495	sec	120
Dielectric Constant		ASTM D150	10 ⁶ Hz	3.4
Dielectric Strength		ASTM D149	KV/mm	20
MOISTURE CONTENT	23℃	KARL FISHER	%	Max 0.08
RELATIVE VISCOSITY	23℃	96% H ₂ SO ₄	-	3.52±0.05
MELT FLOW INDEX		ASTM D1238	235℃*2160g	7
CHIP SIZE	23℃	KPL METHOD	ea/g	145±10
COLOR	23℃	COLOR METER	L	70～75
			b	-4～-1

