

PRODUCT INFORMATION

General Grade

KOPA[®] KN111SB

Polyamide 6 Compound resin,
Middle viscosity, wide uses

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.14
Shrinkage	ASTM D955	%	1.3-1.5
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)	79(810)
Tensile Elongation 23℃	ASTM D638	%	90
Flexural Strength 23℃	ASTM D790	MPa (kg/cm ²)	128(1300)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm ²)	2942(30000)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	78(8)
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

**KOLON PLASTICS, Inc.**