

PRODUCT INFORMATION

Flexible Grade

KOPA[®] KN177ST

Polyamide 6 Compound resin,
High flexible, extrudable

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.14
Shrinkage	ASTM D955	%	1.1-1.3
Water Absorption 23℃, Equilibrium 60%RH	ASTM D570	%	
Thermal			
Melting Point	ASTM D1525	℃	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		℃	160
HDT/A 1.82 MPa (18.6 kg/cm ²)		℃	60
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·℃	0.9
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23℃	ASTM D638	MPa (kg/cm ²)	71(720)
Tensile Elongation 23℃	ASTM D638	%	600
Flexural Strength 23℃	ASTM D790	MPa (kg/cm ²)	69(700)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm ²)	1540(15700)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	118(12)
Rockwell Hardness R scale	ASTM D785	g/cc	115
Electrical			
Arc Resistance	ASTM D495	sec	115
Dielectric Constant	ASTM D150	10 ⁶ Hz	3.2
Dielectric Strength	ASTM D149	KV/mm	20

**KOLON PLASTICS Inc**