

PRODUCT INFORMATION

Standard Grade

KOPA[®] KN181D

Polyamide 6 resin

Property	Test Method	Units	Value
General			
Relative viscosity	96% H2SO4	-	2.63±0.04
Moisture content	-	%	0.1 max
Monomer content	-	%	0.8 max
Color L	-	-	74±4.0
Color b	-	-	-1.8± 2.0
Amino end group	-	meq/kg	52±10.0
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	kg/cm ²	780
Tensile Elongation 23℃	ASTM D638	%	46
Flexural Strength 23℃	ASTM D790	kg/cm ²	1,260
Flexural Modulus 23℃	ASTM D790	kg/cm ²	28,300
Notched Izod Impact Strength 23℃	ASTM D256	kg·cm/cm	7.5



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.

