

PRODUCT INFORMATION

General Grade

KOPA[®] KN120

Polyamide 6 resin,
Middle viscosity, wide uses

Property	Test Method	Units	Value
General			
Relative viscosity	96% H2SO4	-	2.65±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	53±10
Physical			
Specific Gravity	ASTM D792	-	1.14
Shrinkage	ASTM D955	%	1.3-1.5
Water Absorption 23°C, Equilibrium 60%RH	ASTM D570	%	1.8
Thermal			
Melting Point	ASTM D3418	°C	220
Heat Deflection Temperature under Load	ASTM D648		
HDT/A 0.45 MPa (4.6 kg/cm ²)		°C	180
HDT/A 1.82 MPa (18.6 kg/cm ²)		°C	65
Coeff. Of Linear Thermal Expansion	ASTM D696	× 10 ⁻⁴ cm/cm·°C	0.8
Flammability	UL 94		HB
Mechanical			
Tensile Strength 23°C	ASTM D638	MPa (kg/cm ²)	81(830)
Tensile Elongation 23°C	ASTM D638	%	100
Flexural Strength 23°C	ASTM D790	MPa (kg/cm ²)	123(1250)
Flexural Modulus 23°C	ASTM D790	MPa (kg/cm ²)	2746(28000)
Notched Izod Impact Strength 23°C	ASTM D256	J/m (kg cm/cm)	74(7.5)
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

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