KOLON PLASTICS, INC.

PRODUCT INFORMATION

General Grade

KOPA® KN170

Polyamide 6 resin,
High viscosity, high toughness

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.14
Shrinkage	ASTM D955	%	1.3-1.7
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)	80(820)
Tensile Elongation 23℃	ASTM D638	%	150
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)	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

The information provided in this data sheet is based on our present state of knowledge and is estimated by KOLON PLASTICS, Inc. This information should not be used as guaranteeing specification limits. KOLON PLASTICS, Inc. make no warranty and liability in connection with any use of this information.

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