KOLON PLASTICS, INC.

PRODUCT INFORMATION

Impact Resistant Grade

KOPA® KN173ST

Polyamide 6 Compound resin,
Impact resistance

Property		Test Method	Units	Value
Physical				
Specific Gravity		ASTM D792	-	1.07
Shrinkage		ASTM D955	%	1.3 ~ 1.6
Water Absorption	23℃, Equilibrium 60%RH	ASTM D570	%	1
Thermal				
Melting Point		ASTM D3418	℃	215
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)		℃	54.5
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)	37(380)
Tensile Elongation	23℃	ASTM D638	%	550
Flexural Strength	23℃	ASTM D790	MPa (kg/cm^2)	16.7(170)
Flexural Modulus	23℃	ASTM D790	MPa (kg/cm^2)	294.2(3000)
Notched Izod Impact Strength	23℃	ASTM D256	J/m (kg·cm/cm)	902(92)
Rockwell Hardness	R scale	ASTM D785	g/cc	110
Electrical				
Arc Resistance		ASTM D495	sec	125
Dielectric Constant		ASTM D150	10^{6}Hz	3.2
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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