KOLON PLASTICS, INC.

PRODUCT INFORMATION

Impact Resistant Grade

KOPA® KN173HI4HSBL

Polyamide 6 Compound resin,
High viscosity, Impact -resistant

Property	Test Method	Units	Value
Physical			
Specific Gravity	ASTM D792	-	1.1
Shrinkage	ASTM D955	%	1.7-2.0
Water Absorption 23℃, Equilibrium 60%RH	ASTM D570	%	1.15
Thermal			
Melting Point	ASTM D3418	℃	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)		℃	65
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)	38(400)
Tensile Elongation 23℃	ASTM D638	%	150
Flexural Strength 23℃	ASTM D790	MPa (kg/cm^2)	59(610)
Flexural Modulus 23℃	ASTM D790	MPa (kg/cm^2)	1370(14000)
Notched Izod Impact Strength 23℃	ASTM D256	J/m (kg·cm/cm)	880(90)
Rockwell Hardness R scale	ASTM D785	g/cc	113
Electrical			
Arc Resistance	ASTM D495	sec	125
Dielectric Constant	ASTM D150	10^{6}Hz	3.2
Dielectric Strength	ASTM D149	KV/mm	20

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