

PROPERTY INFORMATION

KOLON INDUSTRIES INC

KOPA®

POLYAMIDE-6 RESIN

KN173HI2

HIGH IMPACT GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.1			
WATER ABSORPTION	D570	%			1.3			
MOLD SHRINKAGE	D955	%			1.3			
THERMAL								
MELTING POINT	D789	°C	°F	215	419			
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm ³ (0.46 Mpa)		°C	°F	160	320			
18.6kg.f/cm ³ (1.82 Mpa)		°C	°F	65	149			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			1			
FLAMMABILITY	UL94				HB			
MECHANICAL								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm ²	Mpa	psi	600	59	8,532
TENSILE ELOGATION	73°F (23°C)	D638	%			250		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	900	88	12,798
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	21,000	2,059	298,612
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	25.0	245	4.60
HARDNESS ROCKWELL	R SCALE	D785	g/cc			115		
ELECTRICAL								
ARC RESISTANCE	D495	sec			125			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.2			
DIELECTRIC STRENGTH	D149	KV/mm			20			

The information provided on our present state of knowledge and is estimated by Kolon Industries Inc. The listed values should be used for referential purposed only. This information should not be used as guranteed specification limits.

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