

# PROPERTY INFORMATION

KOLON INDUSTRIES INC

**KOPA**®

POLYAMIDE-6 RESIN

**KN173HI3R**

HIGH IMPACT GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
<b>MISCELLANEOUS</b>								
SPECIFIC GRAVITY	D792				1.09			
WATER ABSORPTION	D570	%			1.1			
MOLD SHRINKAGE	D955	%			1.3			
<b>THERMAL</b>								
MELTING POINT	D789	°C	°F	215	419			
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm <sup>3</sup> (0.46 Mpa)		°C	°F	150	302			
18.6kg.f/cm <sup>3</sup> (1.82 Mpa)		°C	°F	60	140			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 <sup>-4</sup> cm/cm/°C			1			
FLAMMABILITY	UL94				HB			
<b>MECHANICAL</b>								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm <sup>2</sup>	Mpa	psi	550	54	7,821
TENSILE ELOGATION	73°F (23°C)	D638	%			300		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	750	74	10,665
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	18,000	1,765	255,954
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	NB	NB	NB
HARDNESS ROCKWELL	R SCALE	D785	g/cc			115		
<b>ELECTRICAL</b>								
ARC RESISTANCE	D495	sec			125			
DIELECTRIC CONSTANT	D150	10 <sup>6</sup> 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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