

PROPERTY INFORMATION

KOLON INDUSTRIES INC

KOPA®

POLYAMIDE-6 RESIN

KN171

NYLON INJECTION GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.14			
WATER ABSORPTION	D570	%			1.8			
MOLD SHRINKAGE	D955	%			1.3			
THERMAL								
MELTING POINT	D789	°C	°F	220	428			
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm ³ (0.46 Mpa)		°C	°F	180	356			
18.6kg.f/cm ³ (1.82 Mpa)		°C	°F	65	149			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			0.8			
FLAMMABILITY	UL94				HB			
MECHANICAL								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm ²	Mpa	psi	820	80	11,660
TENSILE ELOGATION	73°F (23°C)	D638	%			150		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	1,300	127	18,486
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	30,000	2,942	426,589
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	7.5	74	1.38
HARDNESS ROCKWELL	R SCALE	D785	g/cc			120		
ELECTRICAL								
ARC RESISTANCE	D495	sec			120			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.4			
DIELECTRIC STRENGTH	D149	KV/mm			20			

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