

PROPERTY INFORMATION

KOLON INDUSTRIES INC

KOPA®

POLYAMIDE-6 RESIN

KN1322VO

FLAME RETARDANT GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.16			
WATER ABSORPTION	D570	%			1.4			
MOLD SHRINKAGE	D955	%			1.4			
THERMAL								
MELTING POINT	D789	°C	°F	220	428			
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm ³ (0.46 Mpa)		°C	°F	190	374			
18.6kg.f/cm ³ (1.82 Mpa)		°C	°F	75	167			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			0.9			
FLAMMABILITY	UL94				V-O			
MECHANICAL								
TENSILE STRENGTH	73°F (23 °C)	D638	kgf/cm ²	Mpa	psi	850	83	12,087
TENSILE ELOGATION	73°F (23 °C)	D638	%			40		
FLEXURAL STRENGTH	73°F (23 °C)	D790	kgf/cm ²	Mpa	psi	1,200	118	17,064
FLEXURAL MODULUS	73°F (23 °C)	D790	kgf/cm ²	Mpa	psi	31,000	3,040	440,809
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	7.0	69	1.29
HARDNESS ROCKWELL	R SCALE	D785	g/cc			120		
ELECTRICAL								
ARC RESISTANCE	D495	sec			115			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.4			
DIELECTRIC STRENGTH	D149	KV/mm			20			

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