

PROPERTY INFORMATION

KOLON INDUSTRIES INC

KOPA[®]

POLYAMIDE-6 RESIN

KN178MT35

LOW DISTORTION, HIGH FLOW

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.4			
WATER ABSORPTION	D570	%			0.4			
MOLD SHRINKAGE	D955	%			0.6			
THERMAL								
MELTING POINT	D789	°C	°F	220	428			
HEAT DISTORTION TEMPERATURE 4.6kg.f/cm ² (0.46 Mpa) 18.6kg.f/cm ² (1.82 Mpa)	D648	°C	°F	205	401			
		°C	°F	195	383			
		10 ⁻⁴ cm ³ /cm ³ /°C			0.3			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696				0.3			
FLAMMABILITY	UL94				HB			
MECHANICAL								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm ²	Mpa	psi	750	74	10,665
TENSILE ELOGATION	73°F (23°C)	D638	%			5		
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	50,000	4,903	710,982
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			135			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.5			
DIELECTRIC STRENGTH	D149	KV/mm			22			

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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