

# PROPERTY INFORMATION

KOLON INDUSTRIES INC

# KOPA<sup>®</sup>

POLYAMIDE-6 RESIN

# KN173MC

M/F REINFORCED GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
<b>MISCELLANEOUS</b>								
SPECIFIC GRAVITY	D792				1.27			
WATER ABSORPTION	D570	%			0.7			
MOLD SHRINKAGE	D955	%			0.8			
<b>THERMAL</b>								
MELTING POINT	D789	°C	°F	220	428			
HEAT DISTORTION TEMPERATURE  4.6kg.f/cm <sup>3</sup> (0.46 Mpa) 18.6kg.f/cm <sup>3</sup> (1.82 Mpa)	D648	°C	°F	200	392			
		°C	°F	175	347			
		10 <sup>-4</sup> cm/cm/°C			0.4			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696							
FLAMMABILITY	UL94				HB			
<b>MECHANICAL</b>								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm <sup>2</sup>	Mpa	psi	610	60	8,674
TENSILE ELOGATION	73°F (23°C)	D638	%			25		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	1,000	98	14,220
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	29,000	2,844	412,370
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	20.0	196	3.68
HARDNESS ROCKWELL	R SCALE	D785	g/cc			118		
<b>ELECTRICAL</b>								
ARC RESISTANCE	D495	sec			130			
DIELECTRIC CONSTANT	D150	10 <sup>6</sup> Hz			3.5			
DIELECTRIC STRENGTH	D149	KV/mm			22			

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