

## PROPERTY INFORMATION

KOLON INDUSTRIES INC

# KOPA<sup>®</sup>

# KN190

POLYAMIDE-6 RESIN

HIGH VISCOSITY NYLON-6 FOR EXTRUSION & INJECTION MOLDING

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 <sup>3</sup> (0.46 Mpa)		°C	°F	180	356			
18.6kg.f/cm <sup>3</sup> (1.82 Mpa)		°C	°F	65	149			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 <sup>-4</sup> cm/cm/°C			0.8			
FLAMMABILITY	UL94				HB			
MECHANICAL								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm <sup>2</sup>	Mpa	psi	860	84	12,229
TENSILE ELOGATION	73°F (23°C)	D638	%			150		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	1,350	132	19,197
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	30,000	2,942	426,589
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	8.0	78	1.47
HARDNESS ROCKWELL	R SCALE	D785	g/cc			120		
ELECTRICAL								
ARC RESISTANCE	D495	sec			120			
DIELECTRIC CONSTANT	D150	10 <sup>6</sup> Hz			3.4			
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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