

PROPERTY INFORMATION

KOLON INDUSTRIES INC

KOPET®
PET RESIN

KP133G45
G/F REINFORCED GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.7			
WATER ABSORPTION	D570	%			0.05			
MOLD SHRINKAGE	D955	%			0.2			
THERMAL								
MELTING POINT	D789	°C	°F		254	489		
HEAT DISTORTION TEMPERATURE	D648							
		°C	°F		226	439		
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			0.25			
FLAMMABILITY	UL94				HB			
MECHANICAL								
TENSILE STRENGTH	73°F (23 °C)	D638	kgf/cm ²	Mpa	psi	1,450	142	20,618
TENSILE ELOGATION	73°F (23 °C)	D638	%			4		
FLEXURAL STRENGTH	73°F (23 °C)	D790	kgf/cm ²	Mpa	psi	2,400	235	34,127
FLEXURAL MODULUS	73°F (23 °C)	D790	kgf/cm ²	Mpa	psi	100,000	9,807	1,421,964
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 ⁶ Hz			3.5			
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 guaranteed specification limits.

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