

PROPERTY INFORMATION

KOLON INDUSTRIES INC

S P E S I N [®]
PBT RESIN

KP513G30WBL
MULTI REINFORCED GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.52			
WATER ABSORPTION	D570	%			0.05			
MOLD SHRINKAGE	D955	%			0.3			
THERMAL								
MELTING POINT	D789	°C	°F		223	433		
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm ³ (0.46 Mpa)		°C	°F		220	428		
18.6kg.f/cm ³ (1.82 Mpa)		°C	°F		205	401		
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			0.4			
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	%			5		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	2,200	216	31,283
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	85,100	8,345	1,210,092
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	10.0	98	1.84
HARDNESS ROCKWELL	R SCALE	D785	g/cc			125		
ELECTRICAL								
ARC RESISTANCE	D495	sec			110			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.7			
DIELECTRIC STRENGTH	D149	KV/mm			27			

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