

PROPERTY INFORMATION

KOLON INDUSTRIES INC

SPESIN[®]

PBT RESIN

KP212G15VO

FLAME RETARDANT WITH G/F GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
MISCELLANEOUS								
SPECIFIC GRAVITY	D792				1.53			
WATER ABSORPTION	D570	%			0.06			
MOLD SHRINKAGE	D955	%			0.6			
THERMAL								
MELTING POINT	D789	°C	°F	224	435			
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm ³ (0.46 Mpa)		°C	°F	215	419			
18.6kg.f/cm ³ (1.82 Mpa)		°C	°F	178	352			
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 ⁻⁴ cm/cm/°C			0.4			
FLAMMABILITY	UL94				V-O			
MECHANICAL								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm ²	Mpa	psi	950	93	13,509
TENSILE ELOGATION	73°F (23°C)	D638	%			7		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	1,700	167	24,173
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm ²	Mpa	psi	56,000	5,492	796,300
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	6.0	59	1.11
HARDNESS ROCKWELL	R SCALE	D785	g/cc			119		
ELECTRICAL								
ARC RESISTANCE	D495	sec			120			
DIELECTRIC CONSTANT	D150	10 ⁶ Hz			3.5			
DIELECTRIC STRENGTH	D149	KV/mm			26			

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