

# PROPERTY INFORMATION

KOLON INDUSTRIES INC

**SPESIN**®  
PBT RESIN

**KP212VO**  
FLAME RETARDANT GRADE

PROPERTY	ASTM METHOD	UNIT			VALUE			
<b>MISCELLANEOUS</b>								
SPECIFIC GRAVITY	D792				1.41			
WATER ABSORPTION	D570	%			0.06			
MOLD SHRINKAGE	D955	%			1.8			
<b>THERMAL</b>								
MELTING POINT	D789	°C	°F		224	435		
HEAT DISTORTION TEMPERATURE	D648							
4.6kg.f/cm <sup>3</sup> (0.46 Mpa)		°C	°F		165	329		
18.6kg.f/cm <sup>3</sup> (1.82 Mpa)		°C	°F		55	131		
COEFFICIENT OF LINEAR THERMAL EXPANSION	D696	10 <sup>-4</sup> cm/cm/°C			0.7			
FLAMMABILITY	UL94				V-O			
<b>MECHANICAL</b>								
TENSILE STRENGTH	73°F (23°C)	D638	kgf/cm <sup>2</sup>	Mpa	psi	650	64	9,243
TENSILE ELOGATION	73°F (23°C)	D638	%			30		
FLEXURAL STRENGTH	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	1,200	118	17,064
FLEXURAL MODULUS	73°F (23°C)	D790	kgf/cm <sup>2</sup>	Mpa	psi	31,000	3,040	440,809
IZOD NOTCHED IMPACT STRENGTH		D256	kgcm/cm	J/m	ft.lb/in	4.0	39	0.74
HARDNESS ROCKWELL	R SCALE	D785	g/cc			119		
<b>ELECTRICAL</b>								
ARC RESISTANCE	D495	sec			85			
DIELECTRIC CONSTANT	D150	10 <sup>6</sup> Hz			3.2			
DIELECTRIC STRENGTH	D149	KV/mm			25			

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. Kolon industries Inc assumes no warranty, no obligations or liability of, express or implied aas to the accuracy or compeltteness thereof, or any other nature regarding designs, products, or information may be used without infringing the intellectual property rights of others. All such advice is given and accepted at buyer's risk.

**API-KOLON**  
Engineering Plastics

333 Enterprise Parkway • Lake Zurich • IL • 60047 • USA  
Phone: 1-847-550-5556 Fax: 1-847-550-5557  
Email: MaxHahn21@hotmail.com