



PPA 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	PPA, GF10	PPA, GF20	PPA, GF30	PPA, GF40	PPA, GF33 HS	PPA FR, GF33 HS	PPA, CF10	PPA, CF20	
一般性质	比重 Specific Gravity	D792	-	1.27	1.35	1.44	1.55	1.46	1.75	1.24	1.28	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	-	-	-	-	-	-	
				3.18mm截面	0.6	0.4	0.2~0.4	0.2~0.3	0.2~0.4	0.15~0.3	0.1~0.4	0.05~0.2
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	0.28	0.24	-	0.18	0.2	0.16	-	-		
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	27	59	80	107	96	80	32	53
				3.18mm截面(无缺口) Unnotched Izod	267	534	667	641	694	534	294	534
	伸张强度 Tensile Strength	D638	MPa	93	124	193	221	207	152	152	241	
	延伸率 Tensile Elongation	D638	%	1.6	1.9	1.5~3	2~3	2~3.5	1.5	1~2	1~2	
	伸张模数 Tensile Modulus	D638	MPa	6895	7584	11377	14824	12066	14480	11032	18616	
	弹性强度 Flexural Strength	D790	MPa	141	181	269	317	283	207	214	345	
	弹性模数 Flexural Modulus	D790	MPa	5516	6895	10342	13445	11722	13790	8274	15169	
洛氏硬度 Rockwell Hardness	D785	-	125 R	125 R	-	125 R	125 R	-	-	-		
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	216	249	>260	279	277	266	249	277
				at 66 psi (0.455 MPa)	-	-	-	-	-	-	-	-
	连续使用温度 Continuous Use Temp.	UL-746B	oC	-	-	-	-	-	-	-	-	
	线性热膨胀系数 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /oC	3.8	3.2	-	1.8	1.8	-	-	-	
防火等级 Flammability thickness	-	-	-	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*V-0 @ 0.8 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	>1e15	>1e15	>1e14	>1e15	>1e15	>1e15	-	<1e6	
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	静电消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	-	-	-	-	-	-	-	-	

*Tested by factory.

Data are obtained from specimens molded under carefully controlled conditions from representative samples of the compound described herein. Properties may be materially affected by molding techniques applied and by the size and shape of the item molded. No assurance can be implied that all molded articles will have the same properties as those listed.