



PBT 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	PBT, GF10	PBT, GF20	PBT, GF30	PBT FR, GF10	PBT FR, GF20	PBT FR, GF30	PBT CF10	PBT CF20	
一般性质	比重 Specific Gravity	D792	-	1.38	1.45	1.53	1.5	1.56	1.63	1.34	1.37	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.7~1.1	0.2~0.6	0.2~0.4	0.7~0.9	0.4~0.6	0.15~0.25	0.3~0.5	0.1~0.2
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	-	-	0.07	0.07	0.06	-	-		
机械性质	冲击强度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	59	75	96	32	53	80	43	59
		3.18mm截面(无缺口) Unnotched Izod			481	641	747	320	534	747	374	481
	伸张强度 Tensile Strength	D638	MPa	79	103	124	93	110	131	97	138	
	延伸率 Tensile Elongation	D638	%	2.5~4.5	3~5	2.5~3.5	4~5	3~4	2.5~3.5	2~4	1~3	
	伸张模数 Tensile Modulus	D638	MPa	4826	6895	9653	4826	8274	10342	6895	13790	
	弹性强度 Flexural Strength	D790	MPa	131	159	190	145	165	207	131	197	
	弹性模数 Flexural Modulus	D790	MPa	4137	5516	8274	4137	6895	9653	5516	12411	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	118 R	118 R	118 R	-	-		
热性质	热变形温度 DTUL	at 264 psi (1.82 MPa)	D648	oC	171	204	213	171	191	204	-	-
		at 66 psi (0.455 MPa)			-	-	-	193	210	210	-	-
	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	-	-	-	-	-	-	-	-	
防火等级 Flammability thickness	-	-	-	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	V-0 @ 0.8 mm	V-0 @ 0.8 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	-	-	-	>1e16	>1e16	>1e15	-	-	
	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.