



PBT 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PBT, Anti-static	PBT, CB	PBT, CB, GF15	PBT, CF	PBT, SSF10	
一般性質	比重 Specific Gravity	D792	-	1.27	1.34	1.43	1.35	1.42	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	
		3.18mm截面			1.6~2.3	1.5~2	0.4~0.6	0.1~0.3	1.2~1.6
吸水率(24 hours) Water absorption, 24 hrs @ 23°C		D570	%	-	-	-	-	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	107	43	53	40	37
		3.18mm截面(無缺口) Unnotched Izod			1068	267	374	427	587
	伸張強度 Tensile Strength	D638	MPa	38	34	62	103	55	
	延伸率 Tensile Elongation	D638	%	>10	1~2	3~5	2~3	>10	
	伸張模數 Tensile Modulus	D638	MPa	1724	2620	5516	9653	3103	
	彈性強度 Flexural Strength	D790	MPa	62	59	110	152	90	
	彈性模數 Flexural Modulus	D790	MPa	1724	2413	4826	8274	2896	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	-	-	-	
		at 66 psi (0.455 MPa)			-	-	-	-	
	連續使用溫度 Continuous Use Temp.	UL-746B	°C	-	-	-	-	-	
	線性熱膨脹係數 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /°C	-	-	-	-	-	
防火等級 Flammability thickness	UL-94	-	-	-	-	*HB @ 1.5 mm	-		
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	1e9~9.9e10	<1e3	<1e3	<1e3	<1	
	表面電阻 Surface Resistivity	D257	ohm/SQ	1e10~9.9e11	<1e6	<1e6	<1e6	<1e4	
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	<2	<2	<2	<2	<2	

* 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.