



PC/PMMA 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PC/PMMA	PC/PMMA, Anti-static	PC/PMMA FR, Anti-static	PC/PMMA, PTFE10	PC/PMMA, PTFE15
一般性質	比重 Specific Gravity	D792	-	1.15	1.15	1.15	1.21	1.21
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-
		3.18mm截面		0.3~0.9	0.5~0.8	0.4~0.8	0.6	0.7
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	J/m	1468	1335	961	374	374
		3.18mm截面(無缺口) Unnotched Izod		2029	No Break	No Break	No Break	No Break
	伸張強度 Tensile Strength	D638	MPa	53	42	46.2	45	45
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	>10	>10
	伸張模數 Tensile Modulus	D638	MPa	2068	1931	2100	2206	2275
	彈性強度 Flexural Strength	D790	MPa	79	69	73.8	83	83
	彈性模數 Flexural Modulus	D790	MPa	2068	1931	2400	2068	2068
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	°C	-	-	83	102	102
		at 66 psi (0.455 MPa)		-	-	104	-	-
	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	-	-	-	*HB @ 1.5 mm	-	V-0 @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	-	1e9~ 9.9e10	10e9~ 10e10	-	-
	表面電阻 Surface Resistivity	D257	ohm/SQ	-	1e10~ 9.9e11	10e10~ 10e11	-	-
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	-	<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.