



# PC/ABS 系列複合材料物性表

## compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PC/ABS, Anti-static	PC/ABS FR, Anti-static	PC/ABS, CB	PC/ABS FR, CF	PC/ABS, CNT-1	PC/ABS, CNT-2	PC/ABS, SSF10	PC/ABS FR, SSF10
一般性質	比重 Specific Gravity	D792	-	1.15	1.28	1.22	1.29	1.18	1.18	1.25	1.39
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-	-	-	-
		3.18mm截面		0.6~0.8	0.6~0.8	0.4~0.6	0.1	0.5~0.7	0.5~0.7	0.4~0.6	0.4~0.6
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	-	0.12	-	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	J/m	961	267	43	53	80	80	107	43
		3.18mm截面(無缺口) Unnotched Izod		No Break	1068	534	320	1762	1602	534	320
	伸張強度 Tensile Strength	D638	MPa	38	40	55	124	62	62	59	62
	延伸率 Tensile Elongation	D638	%	>10	>10	6~9	1.5	>10	>10	5~8	3~5
	伸張模數 Tensile Modulus	D638	MPa	1724	2067	3103	12066	3448	3448	2758	2758
	彈性強度 Flexural Strength	D790	MPa	55	65	90	172	103	103	103	110
	彈性模數 Flexural Modulus	D790	MPa	1724	2067	3103	10342	3448	3448	3103	3103
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi ( 1.82 MPa)	°C	-	99	-	-	-	93	-	-
		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 <sup>-5</sup> /°C	-	-	-	-	-	-	-	
防火等級 Flammability thickness	-	-	-	V-0 @ 1.5 mm	-	*V-0 @ 1.5 mm	-	-	-	V-0 @ 1.5 mm	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	1e9~9.9e10	10e9~10e10	<1e3	<1e0	<1e5	1e1~1e3	<1e1	<100
	表面電阻 Surface Resistivity	D257	ohm/SQ	1e10~9.9e11	10e10~10e11	<1e6	<1e4	<1e10	1e4~1e6	<1e4	<1e5
	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.