



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, GF10	PC/ABS, GF20	PC/ABS, GF30	PC/ABS FR, GF10	PC/ABS FR, GF20	PC/ABS FR, GF30	PC/ABS, CF10	PC/ABS, CF20	
一般性質	比重 Specific Gravity	D792	-	1.21	1.29	1.38	1.27	1.36	1.45	1.19	1.25	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.2~0.6	0.1~0.3	0.05~0.2	0.3~0.5	0.15~0.35	0.15~0.3	0.1~0.3	0.05~0.2
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	0.1	0.1	0.1	-	-		
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	107	107	107	80	101	107	96	
		3.18mm截面(無缺口) Unnotched Izod			534	534	587	534	587	641	374	427
	伸張強度 Tensile Strength	D638	MPa	79	103	114	69	110	124	110	124	
	延伸率 Tensile Elongation	D638	%	3~5	2~3	2~3	3~4	2~3	1.5~2.5	1.5~2.5	1.5~2.5	
	伸張模數 Tensile Modulus	D638	MPa	4137	6895	9653	4826	6895	9653	7584	11032	
	彈性強度 Flexural Strength	D790	MPa	131	165	172	124	172	186	152	179	
	彈性模數 Flexural Modulus	D790	MPa	4137	6550	8964	4482	6206	9308	7584	12411	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	118 R	118 R	119 R	-	-		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	-	-	132	135	146	-	-
		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	-	-	-	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	V-0 @ 1.5 mm	V-0 @ 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	-	-	-	>1e16	>1e16	>1e16	-	<1e4	
	表面電阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	靜電消散(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.