



# ABS 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	ABS, Anti-static-1	ABS, Anti-static-2	ABS, Anti-static, Clear	ABS, Anti-static, Clear, HP	ABS, CB	ABS, CF-1	ABS, CF-2	ABS, SSF10
一般性質	比重 Specific Gravity	D792	-	1.05	1.06	1.1	1.1	1.14	1.08	1.08	1.13
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-	-	-	-
		3.18mm截面		0.6~0.7	0.6~0.8	0.5~0.7	0.5~0.7	0.5~0.7	0.1~0.3	0.1~0.2	0.4~0.6
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	J/m	214	214	187	160	43	48	53	64
		3.18mm截面(無缺口) Unnotched Izod		1602	No Break	No Break	No Break	427	214	214	214
	伸張強度 Tensile Strength	D638	MPa	41	41	34	31	38	69	72	38
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	>10	4~6	1.5~2.5	1~2	4~8
	伸張模數 Tensile Modulus	D638	MPa	2136	1931	1793	1517	2413	6201	6895	2413
	彈性強度 Flexural Strength	D790	MPa	67	69	55	53	69	103	103	62
	彈性模數 Flexural Modulus	D790	MPa	2136	2137	1793	1517	2413	5512	5516	2413
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	-
熱性質	熱變形溫度 DTUL	at 264 psi ( 1.82 MPa)	°C	71	-	-	-	-	99	-	-
		at 66 psi (0.455 MPa)		88	-	-	-	-	-	-	-
	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	-	-	-	*HB @ 1.5 mm	-	-	-	-	*HB @ 1.5 mm	-	-
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	10e9~10e10	1e9~1e10	1e9~9.9e10	1e8~1e9	<1e3	max10e4	<1e3	<10
	表面電阻 Surface Resistivity	D257	ohm/SQ	10e10~10e11	1e9~1e10	1e10~9.9e11	1e9~1e10	<1e6	max10e7	<1e6	<1e4
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	<2	<2	<2	<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.