



PS 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PS, GF10	PS, GF20	PS, GF30	PS Hi, GF10	PS Hi, GF20	PS Hi, GF30	PS Hi FR	
一般性質	比重 Specific Gravity	D792	-	1.11	1.18	1.27	1.11	1.18	1.27	1.17	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	
		3.18mm截面			0.2~0.4	0.1~0.4	0.1~0.3	0.2~0.4	0.1~0.4	0.1~0.3	0.4~0.7
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	-	-	0.04		
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	48	48	48	80	53	53	91
		3.18mm截面(無缺口) Unnotched Izod			187	187	160	160	160	160	534
	伸張強度 Tensile Strength	D638	MPa	59	72	79	34	46	53	23	
	延伸率 Tensile Elongation	D638	%	1.5~2.5	1.5~2.5	1~2	1.5~2.5	1.5~2.5	1	>10	
	伸張模數 Tensile Modulus	D638	MPa	2965	6895	9998	4137	6206	8274	2413	
	彈性強度 Flexural Strength	D790	MPa	97	117	124	50	72	76	45	
	彈性模數 Flexural Modulus	D790	MPa	4826	6895	9308	3792	5171	7584	2758	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	-	-	-	-	-	79
		at 66 psi (0.455 MPa)			-	-	-	-	-	-	96
	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	*HB @ 1.5 mm	*HB @ 1.5 mm	*HB @ 1.5 mm	*V-0 @ 1.5 mm	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	-	-	>1e16	
	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.