



PP 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	PP, Anti-static	PP, ICP	PP-Hi, ICP	PP, CB	PP, CB, Low Warping	PP, CF	PP, SSF10	PP, SSF15
一般性質	比重 Specific Gravity	D792	-	0.92	0.95	0.93	1	1.14	1.02	0.99	1.04
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-	-	-	-
		3.18mm截面		1~1.5	1.8~2.4	1.8~2.2	1.2~1.7	0.9	0.2~0.4	0.9~1.4	0.9~1.4
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	0.02	-	0.01	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	J/m	64	53	214	534	59	64	267	267
		3.18mm截面(無缺口) Unnotched Izod		No Break	641	No Break	No Break	427	320	1068	801
	伸張強度 Tensile Strength	D638	MPa	28	30	21	19	25	19	21	22
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	>10	4	>10	>10	>10
	伸張模數 Tensile Modulus	D638	MPa	1724	1793	827	1172	3445	9653	1448	1517
	彈性強度 Flexural Strength	D790	MPa	41	41	30	24	43	34	28	29
	彈性模數 Flexural Modulus	D790	MPa	1379	1655	1034	965	2687	6205	1241	1379
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	°C	-	-	-	52	71	-	-	-
		at 66 psi (0.455 MPa)		-	-	-	-	121	-	-	-
	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	-	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	1e9~9.9e10	1e3~1e6	1e3~1e5	<1e3	max 10e2	max 10e5	1e1~1e1	1e2~1e0
	表面電阻 Surface Resistivity	D257	ohm/SQ	1e10~9.9e11	1e6~1e8	1e6~1e8	<1e6	max 10e5	max 10e5	1e2~1e4	1e2~1e4
	靜電消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	<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.