



Nylon 6 系列複合材料物性表

compound datasheets

項 目 Property			試驗法 ASTM Method	單位 Units	Nylon 6, Anti-static	Nylon 6, CB	Nylon 6, CF	Nylon 6, SSF10
一般性質	比重 Specific Gravity		D792	-	1.13	1.19	1.21	1.24
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-
		3.18mm截面			1~1.5	1.4~1.8	0.1~0.3	1~1.6
	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	D256	J/m	160	107	53	27
		3.18mm截面(無缺口) Unnotched Izod			1068	No Break	427	1068
	伸張強度 Tensile Strength		D638	MPa	55	55	103	69
	延伸率 Tensile Elongation		D638	%	>10	8~12	3~4	>10
	伸張模數 Tensile Modulus		D638	MPa	2413	2896	7579	3792
	彈性強度 Flexural Strength		D790	MPa	76	90	172	110
	彈性模數 Flexural Modulus		D790	MPa	2068	2758	6890	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	-	-	-	-
		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		-	-	-	-	-	-
電氣性質	體積固有電阻 Volume Resistivity		D257	ohm-cm	1e9~9.9e10	<1e3	<10e4	<1e1
	表面電阻 Surface Resistivity		D257	ohm/SQ	1e10~9.9e11	<1e6	<10e6	<1e4
	靜電消散(MIL-PRF-81705C) Static Decay		FTMS-4046.1	sec	<2	<2	<2	<2

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.