



Nylon 6/6 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	Nylon 6/6, CF20	Nylon 6/6, CF30	Nylon 6/6, Mineral40	Nylon 6/6, LGF40	Nylon 6/6, LGF50	
一般性質	比重 Specific Gravity	D792	-	1.22	1.27	1.5	1.46	1.59	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-
		3.18mm截面			0.1	0.1	0.7~1.1	0.1~0.2	0.1~0.2
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	0.5	0.5	0.5	0.8	0.7		
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	69	107	43	267	294
		3.18mm截面(無缺口) Unnotched Izod			694	801	267	1175	1338
	伸張強度 Tensile Strength	D638	MPa	179	241	69	220	241	
	延伸率 Tensile Elongation	D638	%	2~3	2	2~3	2~3	2~3	
	伸張模數 Tensile Modulus	D638	MPa	15158	22048	8274	14469	16536	
	彈性強度 Flexural Strength	D790	MPa	262	351	117	331	358	
	彈性模數 Flexural Modulus	D790	MPa	11024	17914	6895	11713	13780	
洛氏硬度 Rockwell Hardness	D785	-	-	-	120 R	-	-		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	254	260	204	232	243
		at 66 psi (0.455 MPa)			260	260	238	-	-
	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	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	10e1	10e1	>1e14	-	-	
	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.