



Nylon 6/10 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	Nylon 6/10	Nylon 6/10, PTFE15	Nylon 6/10, GF30, PTFE15	Nylon 6/10, GF10	Nylon 6/10, GF20	Nylon 6/10, GF30	Nylon 6/10, GF40	
一般性質	比重 Specific Gravity	D792	-	1.08	1.17	1.44	1.15	1.22	1.3	1.42	
	成型收縮率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-	-	-	
		3.18mm截面		1.5~2.2	2~3	0.2~0.5	0.5~0.8	0.3~0.5	0.1~0.3	0.1~0.2	
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	37	80	139	53	96	133	133
		3.18mm截面(無缺口) Unnotched Izod			No Break	1068	961	641	908	1121	1121
	伸張強度 Tensile Strength	D638	MPa	59	52	134	86	124	145	169	
	延伸率 Tensile Elongation	D638	%	90	>10	2.5~5	6~8	4~6	4~5	2.5~3.5	
	伸張模數 Tensile Modulus	D638	MPa	2413	2137	8964	4137	6206	8964	11722	
	彈性強度 Flexural Strength	D790	MPa	86	72	214	121	172	214	252	
	彈性模數 Flexural Modulus	D790	MPa	2068	2068	7929	3448	5171	6895	8964	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	-	60	210	-	-	-	-
		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	-	-	-	*HB @ 1.5 mm	*HB @ 1.5 mm	*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	-	-	-	-	-	-	-	
	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.