



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, SG: 2.0	Nylon 6, SG: 3.0	Nylon 6, SG: 3.5	Nylon 6, SG: 4.0	Nylon 6, SG: 5.0	Nylon 6, SG: 6.0	Nylon 6I, SG: 7.0	Nylon 6, SG: 8.0
一般性質	比重 Specific Gravity	D792	-	2	3	3.5	4	5	6	7	8
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-
		3.18mm截面			1~1.6	0.9~1.5	0.6~0.8	0.7~1.3	0.6~1.2	0.6~1.2	0.5~1
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	69	53	45	53	53	53	53
		3.18mm截面(無缺口) Unnotched Izod			534	427	246	374	587	374	320
	伸張強度 Tensile Strength	D638	MPa	55	41	50	45	52	48	48	52
	延伸率 Tensile Elongation	D638	%	>10	5~6	2	4~5	4~5	3~4	2~3	2~3
	伸張模數 Tensile Modulus	D638	MPa	20685	2758	7923	4137	4826	6895	11032	11722
	彈性強度 Flexural Strength	D790	MPa	83	76	90	83	97	90	97	93
	彈性模數 Flexural Modulus	D790	MPa	3103	3448	7923	4137	4826	6895	10342	10342
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	-	-	-	*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	*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.