



# Nylon 6 系列复合材料物性表

## compound datasheets

项目 Property		试验法 ASTM Method	单位 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
一般性质	比重 Specific Gravity	D792	-	2	3	3.5	4	5	6	7	8
	成型收缩率 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 @ 23oC	D570	%	-	-	-	-	-	-	-	-	-
机械性质	冲击强度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	69	53	45	53	53	53	53
		3.18mm截面(无缺口) Unnotched Izod			534	427	246	374	587	374	320
	伸张强度 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
	伸张模数 Tensile Modulus	D638	MPa	20685	2758	7923	4137	4826	6895	11032	11722
	弹性强度 Flexural Strength	D790	MPa	83	76	90	83	97	90	97	93
	弹性模数 Flexural Modulus	D790	MPa	3103	3448	7923	4137	4826	6895	10342	10342
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	-
热性质	热变形温度 DTUL	at 264 psi ( 1.82 MPa)	D648	oC	-	-	-	-	-	-	-
		at 66 psi (0.455 MPa)			-	-	-	-	-	-	-
	连续使用温度 Continuous Use Temp.	UL-746B	oC	-	-	-	-	-	-	-	-
	线性热膨胀系数 Coefficient of Linear Thermal Expansion	D 696	10 <sup>-5</sup> /oC	-	-	-	-	-	-	-	-
防火等级 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
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	-	-	-	-
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-
	静电消散(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.