



Nylon 6/6 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	Nylon 6/6, MoS ₂ 2	Nylon 6/6, MoS ₂ 4	Nylon 6/6, MoS ₂ 5	Nylon 6/6, PTFE5	Nylon 6/6, PTFE10	Nylon 6/6, PTFE20	Nylon 6/6, PTFE18, Si2	Nylon 6/6 FR, PTFE18, Si2	
一般性质	比重 Specific Gravity	D792	-	1.16	1.18	1.18	1.17	1.19	1.26	1.24	1.24	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			1~2	1~1.4	1~1.5	1.5~3	1.5~2.5	1.5~2.5	1.5~3	2.8~3.5
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	0.9	-	-	-	-	-	-	0.9	
机械性质	冲击强度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	48	43	43	53	64	53	64	96
		3.18mm截面(无缺口) Unnotched Izod			587	1175	1175	908	747	561	No Break	1281
	伸张强度 Tensile Strength	D638	MPa	86	83	86	-	72	66	66	62	
	延伸率 Tensile Elongation	D638	%	3~8	4~6	5~8	>10	>10	>6	>10	>10	
	伸张模数 Tensile Modulus	D638	MPa	3448	4137	3792	3103	3103	2896	2758	2620	
	弹性强度 Flexural Strength	D790	MPa	131	131	128	107	110	97	97	97	
	弹性模数 Flexural Modulus	D790	MPa	3448	3448	3792	2896	3103	2758	2758	2758	
洛氏硬度 Rockwell Hardness	D785	-	-	118 R	-	-	-	-	-	-	-	
热性质	热变形温度 DTUL	at 264 psi (1.82 MPa)	D648	oC	93	99	99	85	79	85	85	71
		at 66 psi (0.455 MPa)			-	232	-	-	-	-	-	-
	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 ⁻⁵ /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	1e14~1e16	>1e15	1e14~1e16	1e14~1e16	1e14~1e16	1e14~1e16	1e14~1e16	1e14~1e16	>1e14
	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.