



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, AR15, PTFE15	Nylon 6/6, GF30, PTFE15	Nylon 6/6 FR, GF20, PTFE20	Nylon 6/6, GF30, PTFE13, Si2	Nylon 6/6, CF30, PTFE13, Si2	Nylon 6/6, CF30, PTFE15	
一般性质	比重 Specific Gravity	D792	-	1.28	1.49	1.43	1.49	1.35	1.37	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	-	-	-	-	
				3.18mm截面	1~1.5	0.1~0.5	0.4~0.6	0.2~0.3	0.1	0.1
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	-	0.7	0.5	0.7	-		
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	53	91	80	107	101	91
				3.18mm截面(无缺口) Unnotched Izod	481	881	694	1068	748	801
	伸张强度 Tensile Strength	D638	MPa	83	147	117	158	200	207	
	延伸率 Tensile Elongation	D638	%	5~6	2.5~4	2.5~3.5	3	1~2	1.5~3	
	伸张模数 Tensile Modulus	D638	MPa	4134	9308	6895	10335	20670	20670	
	弹性强度 Flexural Strength	D790	MPa	117	224	179	227	310	317	
	弹性模数 Flexural Modulus	D790	MPa	3790	8964	6206	8957	17225	18603	
洛氏硬度 Rockwell Hardness	D785	-	-	-	118 R	-	-	-		
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	-	238	232	238	249	254
				at 66 psi (0.455 MPa)	-	-	238	-	-	-
	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	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	10e14	>1e13	>1e14	10e15	10e1	10e1	
	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.