



Nylon 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, GF20	Nylon 6, GF30	Nylon 6, GF40	Nylon 6, GF50	Nylon 6, CF20	Nylon 6, CF30	
一般性质	比重 Specific Gravity	D792	-	1.27	1.35	1.45	1.56	1.22	1.27	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	-	-	-	-	
				3.18mm截面	0.2~0.4	0.2~0.4	0.1~0.3	0.1~0.3	0.02~0.1	0.02~0.1
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	-	-	-	-	-		
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	64	107	133	144	69	107
				3.18mm截面(无缺口) Unnotched Izod	641	1014	1175	1228	747	908
	伸张强度 Tensile Strength	D638	MPa	131	159	172	190	172	221	
	延伸率 Tensile Elongation	D638	%	3~4	3~4	2.5~3.5	2~3	2~3	2~3	
	伸张模数 Tensile Modulus	D638	MPa	6895	9308	11722	15858	14480	22064	
	弹性强度 Flexural Strength	D790	MPa	193	234	269	310	262	331	
	弹性模数 Flexural Modulus	D790	MPa	6206	8274	10342	14480	11032	17238	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-		
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	-	-	-	-	-	
				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 ⁻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	-	-	-	-	<1e3	<1e2	
	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.