



Nylon 6/12 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	Nylon 6/12, GF10	Nylon 6/12, GF20	Nylon 6/12, GF30	Nylon 6/12, GF40	Nylon 6/12, GF50	Nylon 6/12 FR, GF10	Nylon 6/12 FR, GF20	Nylon 6/12 FR, GF30	
一般性质	比重 Specific Gravity	D792	-	1.13	1.22	1.3	1.38	1.5	1.43	1.5	1.65	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.5~0.9	0.2~0.5	0.2~0.4	0.1~0.3	0.1~0.2	0.6~1.2	0.3~0.5	0.15~0.3
	吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	-	-	-	-	0.3	0.25	0.15	
机械性质	冲击强度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	43	80	117	144	160	43	75	80
		3.18mm截面(无缺口) Unnotched Izod			347	587	1014	1175	1335	320	534	694
	伸张强度 Tensile Strength	D638	MPa	76	124	159	172	193	76	97	131	
	延伸率 Tensile Elongation	D638	%	2~3	3~4	3~4	3~4	2~3	2~3	2~3	2~3	
	伸张模数 Tensile Modulus	D638	MPa	4137	6895	8964	11032	14480	4826	7584	12066	
	弹性强度 Flexural Strength	D790	MPa	121	186	238	265	303	117	159	200	
	弹性模数 Flexural Modulus	D790	MPa	3792	5861	8274	9653	12411	3792	6550	11032	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-		
热性质	热变形温度 DTUL	at 264 psi (1.82 MPa)	D648	oC	-	-	-	-	-	191	210	
		at 66 psi (0.455 MPa)			-	-	-	-	-	199	213	
	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	*V-0 @ 1.5 mm	*V-0 @ 1.5 mm	V-0 @ 1.5 mm	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	-	>1e13	>1e13	>1e13	
	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.