



Nylon 12 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	Nylon 12	Nylon 12, PTFE20	Nylon 12, GF10	Nylon 12, GF20	Nylon 12, GF30	Nylon 12, GF40	Nylon 12, CF20	Nylon 12, CF30	
一般性质	比重 Specific Gravity	D792	-	1.02	1.13	1.08	1.15	1.23	1.31	1.1	1.15	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	-
		3.18mm截面			1.6~2	1~2	0.4~0.6	0.3~0.5	0.2~0.3	0.1~0.3	0.1~0.3	0.1~0.2
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	53	69	54	91	128	208	85	149
		3.18mm截面(无缺口) Unnotched Izod			1442	801	491	614	747	1121	614	774
	伸张强度 Tensile Strength	D638	MPa	41	34	48	76	100	131	110	141	
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	3~4	3~4	3~4	2~3	2~3	
	伸张模数 Tensile Modulus	D638	MPa	1379	1379	2482	4482	6206	8964	8274	13790	
	弹性强度 Flexural Strength	D790	MPa	48	48	66	110	155	207	162	221	
	弹性模数 Flexural Modulus	D790	MPa	1310	1379	2068	3792	5516	7584	8274	12411	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	-	-	-	-	
热性质	热变形温度 DTUL	at 264 psi (1.82 MPa)	D648	oC	-	52	-	-	163	-	-	-
		at 66 psi (0.455 MPa)			-	-	-	-	177	-	-	-
	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	-	-	-	-	-	-	-	-	
	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.