



# Nylon 11 系列复合塑料物性表

## compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	Nylon 11	Nylon 11, MoS <sub>2</sub>	Nylon 11, PTFE10	Nylon 11, GF20, PTFE20	Nylon 11, GF10	Nylon 11, GF20	Nylon 11, GF30	Nylon 11, GF40	
一般性质	比重 Specific Gravity	D792	-	1.03	1.07	1.09	1.33	1.1	1.18	1.25	1.35	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			1.3~1.8	1.5~2	1.5~2.5	0.2~0.4	0.4~0.6	0.2~0.4	0.1~0.3	0.1~0.3
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	96	59	69	91	59	107	107	93
		3.18mm截面(无缺口) Unnotched Izod			No Break	1495	No Break	481	587	614	587	427
	伸张强度 Tensile Strength	D638	MPa	40	45	34	72	62	83	86	86	
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	2~3	7~8	3~4	2.5~3.5	2~3	
	伸张模数 Tensile Modulus	D638	MPa	1379	1724	1379	5171	2758	4826	6550	8274	
	弹性强度 Flexural Strength	D790	MPa	52	55	52	107	83	117	124	124	
	弹性模数 Flexural Modulus	D790	MPa	1379	1517	1379	4482	2413	4826	5516	6895	
洛氏硬度 Rockwell Hardness	D785	-	108 R	-	-	-	108 R	-	-	-		
热性质	热变形温度 DTUL	at 264 psi ( 1.82 MPa)	D648	oC	54	54	54	163	-	-	-	-
		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 <sup>-5</sup> /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.