



TPU 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 Units	TPU, Anti-static, 70 Shore A	TPU, CB, 85 Shore A	TPU, GF10, 55 Shore D	TPU, GF20, 90 Shore A	TPU, GF30, 65 Shore D	TPU, GF10, 70 Shore A	TPU, GF20, 70 Shore A	TPU, GF30, 70 Shore A	
一般性质	比重 Specific Gravity	D792	-	1.06	1.2	1.28	1.32	1.44	1.14	1.18	1.27	
	成型收缩率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			-	1~1.5	0.3	0.1~0.2	0.05~0.2	0.1~0.3	0.1~0.3	0.1~0.3
吸水率(24 hours) Water absorption, 24 hrs @ 23oC	D570	%	-	-	-	-	-	0.4	0.4	0.4		
机械性质	冲击强度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	-	-	801	694	400	149	214	214
		3.18mm截面(无缺口) Unnotched Izod			-	-	No Break	961	No Break	149	214	214
	伸张强度 Tensile Strength	D638	MPa	10	10	39	21	72	16	23	12	
	延伸率 Tensile Elongation	D638	%	>1500	400~600	65	>10	>10	80	60	50	
	伸张模数 Tensile Modulus	D638	MPa	-	-	621	552	3103	69	138	69	
	弹性强度 Flexural Strength	D790	MPa	-	-	17	14	69	3	6	5	
	弹性模数 Flexural Modulus	D790	MPa	-	-	414	414	2413	69	138	138	
洛氏硬度 Rockwell Hardness	D785	-	70A	85A, 45D	67 D	-	75 D	70 A	70A	70A		
热性质	热变形温度 DTUL	at 264 psi (1.82 MPa)	D648	oC	-	-	-	-	-	-	-	
		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		
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	1e9~9.9e10	<1e3	-	-	-	-	-	-	
	表面电阻 Surface Resistivity	D257	ohm/SQ	1e10~9.9e11	<1e6	-	-	-	-	-	-	
	静电消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	<2	<2	-	-	-	-	-	-	

*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.