



# HDPE 系列复合塑料物性表

compound datasheets

项 目 Property		试验法 ASTM Method	单位 Units	HDPE	HDPE, Anti-static	HDPE, ICP	HDPE, CB	HDPE, CF
一般性质	比重 Specific Gravity	D792	-	0.95	0.97	0.98	1.06	1
	成型收缩率 Mold Shrinkage	6.35mm截面	%	-	-	-	-	-
		3.18mm截面		1.7~2.9	2~4	3~5	2~3	0.2~0.4
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	J/m	53	No Break	53	32	53
		3.18mm截面(无缺口) Unnotched Izod		No Break	No Break	No Break	No Break	160
	伸张强度 Tensile Strength	D638	MPa	20	17	22	24	31
	延伸率 Tensile Elongation	D638	%	>10	>10	>10	>10	6~10
	伸张模数 Tensile Modulus	D638	MPa	1241	690	965	1034	5516
	弹性强度 Flexural Strength	D790	MPa	21	18	22	31	41
	弹性模数 Flexural Modulus	D790	MPa	827	690	827	1172	3103
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	
热性质	热变形温度 DTUL	at 264 psi ( 1.82 MPa)	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 <sup>-5</sup> /oC	-	-	-	-	-
防火等级 Flammability thickness	-	-	-	*HB @ 1.5 mm	-	-	-	-
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	-	1e9~9.9e10	1e3~1e5	<1e3	<1e3
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	1e10~9.9e11	1e6~1e8	<1e6	<1e6
	静电消散(MIL-PRF-81705C) Static Decay	FTMS-4046.1	sec	-	<2	-	<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.