



HTN 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	HTN, GF10	HTN, GF20	HTN, GF30	HTN, GF40	HTN FR, GF30	HTN, CF10	HTN, CF20	HTN, CF30	
一般性質	比重 Specific Gravity	D792	-	1.26	1.33	1.42	1.51	1.65	1.22	1.26	1.3	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.4~0.5	0.3~0.5	0.2~0.35	0.2~0.3	0.15~0.3	0.2~0.5	0.05~0.3	0.05~0.1
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	0.5	0.48	0.42	0.4	0.4	0.5	0.45	0.4		
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	37	59	75	107	107	32	53	64
		3.18mm截面(無缺口) Unnotched Izod			267	267	587	747	641	267	534	641
	伸張強度 Tensile Strength	D638	MPa	90	117	172	207	165	138	221	248	
	延伸率 Tensile Elongation	D638	%	1~2	1~2	2~3	2~3	1~2	1.5	1.6	1.7	
	伸張模數 Tensile Modulus	D638	MPa	5171	7584	10342	13100	13790	9653	17238	24132	
	彈性強度 Flexural Strength	D790	MPa	145	165	241	290	221	193	303	359	
	彈性模數 Flexural Modulus	D790	MPa	4826	6895	9653	12411	13100	7584	15169	20685	
洛氏硬度 Rockwell Hardness	D785	-	124 R	125 R	125 R	125 R	125 R	124 R	125 R	125 R		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	232	254	260	263	274	232	260	260
		at 66 psi (0.455 MPa)			-	-	-	-	-	-	-	-
	連續使用溫度 Continuous Use Temp.	UL-746B	°C	-	-	-	-	-	-	-	-	
	線性熱膨脹係數 Coefficient of Linear Thermal Expansion	D 696	10 ⁻⁵ /°C	-	-	-	-	-	-	-	-	
防火等級 Flammability thickness	-	-	-	-	-	-	*V-0 @ 0.8 mm	-	-	-		
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	-	-	-	-	
	表面電阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	靜電消散(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.