



LCP 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	LCP LT, GF10	LCP LT, GF20	LCP LT, GF30	LCP MT, GF10	LCP MT, GF20	LCP MT, GF30	LCP HT, GF10	LCP HT, GF20	
一般性質	比重 Specific Gravity	D792	-	1.47	1.54	1.62	1.48	1.52	1.61	1.46	1.52	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.1~0.2	0.1~0.2	0.1~0.2	0.3	0.3	0.1~0.25	0.5	0.4
吸水率(24 hours) Water absorption, 24 hrs @ 23°C	D570	%	-	-	-	-	-	-	-	-	-	
機械性質	衝擊強度 Impact Strength	3.18mm截面(缺口) Notched Izod	D256	J/m	534	133	85	160	187	112	160	117
		3.18mm截面(無缺口) Unnotched Izod			1388	534	374	534	694	534	374	481
	伸張強度 Tensile Strength	D638	MPa	165	165	165	162	141	134	124	117	
	延伸率 Tensile Elongation	D638	%	4	3	2~3	2~3	1.8	1~2	1.5	1.2	
	伸張模數 Tensile Modulus	D638	MPa	9653	11377	13790	11377	15169	16548	15169	16548	
	彈性強度 Flexural Strength	D790	MPa	193	217	234	186	172	179	145	165	
	彈性模數 Flexural Modulus	D790	MPa	8964	11032	13445	9998	12411	13790	12411	14480	
洛氏硬度 Rockwell Hardness	D785	-	-	-	-	-	-	105 R	-	105 R		
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	199	221	224	266	271	277	293	304
		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 @ 3 mm	*V-0 @ 0.8 mm	-	*V-0 @ 3 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.