



LCP 系列複合材料物性表

compound datasheets

項目 Property		試驗法 ASTM Method	單位 Units	LCP HT, GF30	LCP LT, CF20	LCP LT, CF30	LCP LT, CF40	LCP MT, CF20	LCP MT, CF30	LCP MT, CF40	LCP HT, CF20	
一般性質	比重 Specific Gravity	D792	-	1.61	1.46	1.5	1.53	1.45	1.48	1.51	1.39	
	成型收縮率 Mold Shrinkage	6.35mm截面	D955	%	-	-	-	-	-	-	-	
		3.18mm截面			0.02~0.1	0.1	0.05~0.1	0.05~0.1	0.01	0.01	0.01	0.05
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	96	187	107	80	96	69	53	59
		3.18mm截面(無缺口) Unnotched Izod			534	641	481	320	641	374	267	374
	伸張強度 Tensile Strength	D638	MPa	117	190	200	172	138	152	117	152	
	延伸率 Tensile Elongation	D638	%	1~2	2~3	2	1~2	1.7	1	0.5	1	
	伸張模數 Tensile Modulus	D638	MPa	15858	20685	27580	36199	24822	34475	34475	27580	
	彈性強度 Flexural Strength	D790	MPa	165	262	290	290	207	231	172	200	
	彈性模數 Flexural Modulus	D790	MPa	14480	17238	24132	31028	20685	24132	27580	19996	
洛氏硬度 Rockwell Hardness	D785	-	105 R	-	-	-	-	-	-	-	-	
熱性質	熱變形溫度 DTUL	at 264 psi (1.82 MPa)	D648	°C	304	227	229	229	282	285	285	-
		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 @ 0.3 mm	-	-	-	-	*V-0 @ 3 mm	*V-0 @ 3 mm	*V-0 @ 3 mm	-	
電氣性質	體積固有電阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	<1e5	<1e5	<1e5	-	
	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.