



LCP 系列复合塑料物性表

compound datasheets

项目 Property		试验法 ASTM Method	单位 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	
一般性质	比重 Specific Gravity	D792	-	1.61	1.46	1.5	1.53	1.45	1.48	1.51	1.39	
	成型收缩率 Mold Shrinkage	D955	%	6.35mm截面	-	-	-	-	-	-	-	
				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 @ 23oC	D570	%	-	-	-	-	-	-	-	-	-	
机械性质	冲击强度 Impact Strength	D256	J/m	3.18mm截面(缺口) Notched Izod	96	187	107	80	96	69	53	59
				3.18mm截面(无缺口) Unnotched Izod	534	641	481	320	641	374	267	374
	伸张强度 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	
	伸张模数 Tensile Modulus	D638	MPa	15858	20685	27580	36199	24822	34475	34475	27580	
	弹性强度 Flexural Strength	D790	MPa	165	262	290	290	207	231	172	200	
	弹性模数 Flexural Modulus	D790	MPa	14480	17238	24132	31028	20685	24132	27580	19996	
洛氏硬度 Rockwell Hardness	D785	-	105 R	-	-	-	-	-	-	-	-	
热性质	热变形温度 DTUL	D648	oC	at 264 psi (1.82 MPa)	304	227	229	229	282	285	285	-
				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	-	-	-	V-0 @ 0.3 mm	-	-	-	*V-0 @ 3 mm	*V-0 @ 3 mm	*V-0 @ 3 mm	-	
电气性质	体积固有电阻 Volume Resistivity	D257	ohm-cm	-	-	-	-	<1e5	<1e5	<1e5	-	
	表面电阻 Surface Resistivity	D257	ohm/SQ	-	-	-	-	-	-	-	-	
	静电消散(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.