ZENITE® 5145L R1 (PRELIMINARY)

Liquid Crystal Polymer

产品信息

树脂鉴别	LCP-GF45	ISO 1043
制品标识码	>LCP-GF45<	ISO 11469

机械性能

拉伸模量	16400	MPa	ISO 527-1/-2
拉伸断裂应力, 50mm/min	130	MPa	ISO 527-1/-2
断裂伸长率, 50mm/min	2	%	ISO 527-1/-2
弯曲模量	17100	MPa	ISO 178
弯曲强度	210	MPa	ISO 178
简支梁无缺口冲击强度, 23°C	17.1	kJ/m²	ISO 179/1eU
简支梁缺口冲击强度, 23°C	15.4	kJ/m²	ISO 179/1eA

热性能

熔融温度, 10°C/min	318	°C	ISO 11357-1/-3
热变形温度, 1.8 MPa	291	°C	ISO 75-1/-2
热变形温度, 0.45 MPa	305	°C	ISO 75-1/-2

阻燃性能

厚度为h时的阻燃性	V-0	class	IEC 60695-11-10
测试用试样的厚度	0.4	mm	IEC 60695-11-10

电性能

相对介电常数, 2GHz	4.67		IEC 61189-2-721
介质损耗因子, 2GHz	62	E-4	IEC 61189-2-721
体积电阻率	1E13	Ohm.m	IEC 62631-3-1
表面电阻率	1E15	Ohm	IEC 62631-3-2

其它性能

吸湿率, 2mm	0.03	%	类似ISO 62
密度	1740	kg/m³	ISO 1183

注塑

建议干燥	是	
干燥温度	150	°C
干燥时间，除湿干燥机	4 - 6	h
加工前水分含量	≤ 0.01	%
最优熔体温度	335	°C
最低熔体温度***	325	°C
最高熔体温度	345	°C
螺杆最大切线速度	0.2 - 0.3	m/s
最优模具温度	100	°C
最低模具温度	80	°C
最高模具温度	120	°C

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特性

加工方法	注塑
特殊性能	阻燃, 抗冲改性, 热稳定, 高流动性, 低翘曲, 熔接线强度改善, 耐无铅焊接

Revised: 2025-03-20 Source: Celanese Materials Database

The above data are preliminary and are subject to change as additional data are developed on subsequent lots.
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