

UNIT Lee[®] PEK8140 CA

产品细节：是一种超高性能黑色热塑性聚合物，40%碳纤维增强的聚醚酮，半结晶颗粒适合注塑成型，流动佳。

应用领域：适用于高温应用，其中需要更高的强度和刚度的承重应用。化学耐腐蚀环境，适合医疗和食品接触应用的灭菌器材。

典型特征：

ITEMS 项目	TEST METHOD测试方法	UNIT	UNITLee [®] PEK8140 CA
物理特性			
Density密度	23°C	g/cc	1.45
Water Absorption含水率	ASTM D 570-98	%	0.2
Mold Shrinkage (435°C nozzle, 220°C Mold)	Along Flow 平行于流动方向	%	1.00
模具收缩率 (435°C 浇口 , 220°C 模温)	Across Flow 垂直于流动方向	%	1.10
Thermal Properties热性能			
Glass Transition Temperature(Tg) 玻璃化温度	ASTM D 3418	°C	152
Melting Point (Tm) 熔点	ASTM D 3418	°C	370
Heat Deflection Temperature (HDT)热变形温度	ASTM D 648 /1.8 MPa	°C	365
Mechanical Properties at 23°C 机械性能 (23°C)			
Tensile Strength拉伸强度	ASTM D 638	MPa	265
Tensile Modulus拉伸模量	ASTM D 638	MPa	35000
Elongation at Break断裂伸长率	ASTM D 638	%	2.5
Flexural Strength抗弯强度	ASTM D 790	MPa	400
Flexural Modulus抗弯模量	ASTM D 790	MPa	30000
Compressive Strength抗压强度	ASTM D 695	MPa	135
Izod Impact Strength(Notched)悬臂梁缺口冲击强度	ASTM D 256	J/m	75
Izod Impact Strength(Un-notched)悬臂梁非缺口冲击强度	ASTM D 256	J/m	不损坏

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Fire Properties			
Flammability阻燃级别	UL 94/0.8 mm	-	V-0
Electrical Properties 电学性能			
Surface Resistivity 表面电阻	ASTM D 257	Ω	<10 ⁶
Recommended Processing Conditions推荐的加工条件			
Drying Temperature/Time干燥工艺	4-6 hrs at 150°C		
Temperature Settings温度设定（注塑）	390-430°C		
Nozzle Temperature喷嘴温度（注塑）	430°C		
Hopper Temperature料斗温度（注塑，挤出）	60-80°C		
Mold Temperature模具温度（注塑）	220°C - 225°C		
Temperature Settings-Extrusion 挤出：温区 1/2/3/4 : 400°C/ 405°C/ 410°C/ 415°C/ 模头：425°C			
Nominal Granule Size标称粒度			
<ul style="list-style-type: none"> • Dimensions, length 2.0 – 4.0 mm, diameter 2.0 – 3.5 mm 长度 2.0 – 4.0 mm, 直径 2.0 – 3.5 mm • No longs greater than 9.0 mm 长度不超过 9.0 毫米 • Granules of uniform cut and color 颜色和大小均匀 			

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