

## UNIT Lee® PEK8100

**产品细节：**超高性能热塑性聚合物聚醚酮树脂，耐高温，高模量，晶态颗粒，适合注塑，挤出工艺，棕色。

**应用领域：**适用于特高温、高强度承重应用。耐油、耐酸碱、耐辐射，适用于石化、机械、军用、医疗器械和食品接触应用。

**典型特征：**

ITEMS 项目	TEST METHOD测试方法	UNIT	UNITLee® PEK8100
<b>物理特性</b>			
Density密度	23°C	g/cc	1.31
Water Absorption含水率	ASTM D 570-98	%	0.15
Shore D Hardness邵氏 D 硬度	ASTM D 2240-05		90
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
<b>Thermal Properties热性能</b>			
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	195
Continuous Use Temperature 连续使用温度	UL 746B	°C	265
<b>Mechanical Properties at 23°C 机械性能 (23°C)</b>			
Tensile Strength拉伸强度	ASTM D 638	MPa	103
Tensile Modulus拉伸模量	ASTM D 638	MPa	4150
Elongation at Break断裂伸长率	ASTM D 638	%	15
Flexural Strength抗弯强度	ASTM D 790	MPa	175
Flexural Modulus抗弯模量	ASTM D 790	MPa	4250
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	60
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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<b>Fire Properties</b>			
Flammability阻燃级别	UL 94/0.8 mm	-	V-0
<b>Electrical Properties 电学性能</b>			
Surface Resistivity 表面电阻	ASTM D 257	Ω	10 <sup>16</sup>
<b>Recommended Processing Conditions推荐的加工条件</b>			
Drying Temperature/Time干燥工艺	4-6 hrs at 150°C		
Temperature Settings温度设定	370-400°C		
Nozzle Temperature喷嘴温度	400°C		
HopperTemperature料斗温度	60-80°C		
Mold Temperature模具温度	195-200°C		
<b>Nominal Granule Size标称粒度</b>			
<ul style="list-style-type: none"> <li>• 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</li> <li>• No longs greater than 9.0 mm 长度不超过 9.0 毫米</li> <li>• Granules of uniform cut and color 颜色和大小均匀</li> </ul>			

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