

UNIT Lee® PEKK ESD

产品细节：超高性能黑色永久性抗静电功能聚醚酮酮。表面电阻率稳定在 10^8 ，内外各处均一稳定，不同尺寸均适用，无炭黑，石墨脱落脱碳现象。半晶态颗粒，适合注塑，挤出工艺。

应用领域：适用于特高温、高强度、耐油、耐酸碱、耐辐射，适用于半导体、机械、纺织，汽车，家电、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® PEKK ESD
物理特性			
Density密度	23°C	g/cc	1.60
Water Absorption含水率	ASTM D 570-98	%	0.05
Shore D Hardness邵氏 D 硬度	ASTM D 2240-05		91
Mold Shrinkage (435°C nozzle, 220°C Mold)	Along Flow	%	0.40
模具收缩率 (435°C 浇口 , 220°C 模温)	Across Flow	%	0.50
Thermal Properties热性能			
Glass Transition Temperature(Tg) 玻璃化温度	ASTM D 3418	°C	143
Melting Point (Tm) 熔点	ASTM D 3418	°C	350
Heat Deflection Temperature (HDT)热变形温度	ASTM D 648 /1.8 MPa	°C	--
Continuous Use Temperature 连续使用温度	UL 746B	°C	260
Mechanical Properties at 23°C 机械性能 (23°C)			
Tensile Strength拉伸强度	ASTM D 638	MPa	120
Tensile Modulus拉伸模量	ASTM D 638	GPa	11.6
Elongation at Break断裂伸长率	ASTM D 638	%	1.25
Flexural Strength抗弯强度	ASTM D 790	MPa	192
Flexural Modulus抗弯模量	ASTM D 790	GPa	10.8
Compressive Strength抗压强度	ASTM D 695	MPa	125
Izod Impact Strength(Notched)悬臂梁缺口冲击强度	ASTM D 256	J/m	70
Izod Impact Strength(Un-notched)悬臂梁非缺口冲击强度	ASTM D 256	J/m	不损坏

ITEMS 项目	TEST METHOD测试方法	UNIT	UNITLee® PEKK ESD
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 ⁸
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	355-385°C		
Nozzle Temperature喷嘴温度	385°C		
HopperTemperature料斗温度	60-80°C		
Mold Temperature模具温度	180-220°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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