

# EMERGE™ PC 8430-7 LT

Advanced Resin

Trinseo

## Technical Data

### Product Description

EMERGE™ PC 8430-7 LT advanced resin is a transparent, ignition resistant PC resin that contains no chlorinated or brominated or phosphorous based additives. The resin is designed to meet the German norm DIN VDE-0472/Part 815 on halogens. This resin combines good mechanical and high RTI properties, ensuring longer sustained aesthetics and mechanical resistance, to the applications. EMERGE™ PC 8430-7 LT has a UL 94 V-0 rating at 1.5 mm, and contains mould release agent and UV stabilizer.

Applications:

- Electrical
- Lighting
- Diffusers
- Lenses

### General

Additive	• 脱模	• 紫外线稳定剂
Features	• Chlorine Free • 外观良好	• 无溴 • 阻燃性
Uses	• 电气/电子应用领域	• 照明应用
Agency Ratings	• DIN VDE 0472 第 815 部分	
Appearance	• 清晰/透明	
Forms	• 粒子	

Physical	额定值 单位制	测试方法
Density	1.20 g/cm <sup>3</sup>	ISO 1183/B
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	7.0 g/10 min	ISO 1133
Molding Shrinkage	0.50 到 0.70 %	ISO 294-4
Mechanical	额定值 单位制	测试方法
Tensile Modulus	2400 MPa	ISO 527-2
Tensile Stress		ISO 527-2
屈服	60.0 MPa	
断裂	70.0 MPa	
Tensile Strain		ISO 527-2
屈服	6.0 %	
断裂	110 %	
Flexural Modulus	2350 MPa	ISO 178
Flexural Stress	95.0 MPa	ISO 178
Impact	额定值 单位制	测试方法
Charpy Notched Impact Strength (23°C)	35 kJ/m <sup>2</sup>	ISO 179/1eA
Notched Izod Impact Strength (23°C)	70 kJ/m <sup>2</sup>	ISO 180/A

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Thermal	额定值 单位制	测试方法
Heat Deflection Temperature		
0.45 MPa, 退火	144 °C	ISO 75-2/B
1.8 MPa, 未退火	125 °C	ISO 75-2/A
1.8 MPa, 退火	141 °C	ISO 75-2/A
Vicat Softening Temperature	148 °C	ISO 306/B50
Ball Indentation Temperature	> 125 °C	IEC 60335-1
CLTE - 流动	7.0E-5 cm/cm/°C	ISO 11359-2
Electrical	额定值 单位制	测试方法
Surface Resistivity	> 1.0E+15 ohms	IEC 60093
Volume Resistivity	> 1.0E+15 ohms·cm	IEC 60093
Electric Strength	17 kV/mm	IEC 60243-1
Dielectric Constant		IEC 60250
1 Hz	2.70	
50 Hz	2.70	
Dissipation Factor		IEC 60250
1 Hz	1.0E-3	
50 Hz	1.0E-3	
Comparative Tracking Index (解决方案 A)	225 V	IEC 60112
Flammability	额定值 单位制	测试方法
Flame Rating		UL 94
0.75 mm <sup>4</sup>	V-2	
1.5 mm <sup>4</sup>	V-0	
3.0 mm <sup>5</sup>	V-0	
Glow Wire Flammability Index		IEC 60695-2-12
1.0 mm <sup>5</sup>	960 °C	
2.0 mm <sup>4</sup>	960 °C	
3.0 mm <sup>4</sup>	960 °C	
Glow Wire Ignition Temperature <sup>4</sup>		IEC 60695-2-13
1.0 mm	800 °C	
2.0 mm	800 °C	
3.0 mm	800 °C	
Oxygen Index <sup>4</sup>	40 %	ISO 4589-2
Optical	额定值 单位制	测试方法
Transmittance <sup>6</sup>	88.0 到 89.0 %	ASTM D1003
Injection	额定值 单位制	
Drying Temperature	120 °C	
Drying Time	3.0 到 4.0 hr	
Processing (Melt) Temp	> 300 °C	
Mold Temperature	70 到 100 °C	