

# LEXAN™ LUX2614 resin

聚碳酸酯

SABIC Innovative Plastics Asia Pacific



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## Technical Data

### 产品说明

7.0 MFR. Improved flame retardance. UV stabilized for outdoor and lighting. Internal mold release.

### 总体

材料状态	• 已商用 : 当前有效
资料 <sup>1</sup>	• <a href="#">Technical Datasheet</a>
UL 黄卡 <sup>2</sup>	• <a href="#">E207780-100940410</a>
搜索 UL 黄卡	• <a href="#">SABIC Innovative Plastics Asia Pacific</a> • <a href="#">LEXAN™</a>
供货地区	• 亚太地区
添加剂	• 脱模 • 紫外线稳定剂 • 阻燃
性能特点	• 脱模性能良好 • 阻燃性能
用途	• 室外应用 • 照明装置
加工方法	• 注射成型

物理性能	额定值	单位制	测试方法
比重			ASTM D792
--	1.20 g/cm <sup>3</sup>		
--	1.19 g/cm <sup>3</sup>		
特定体积	0.830 cm <sup>3</sup> /g		ASTM D792
熔流率 (300°C/1.2 kg)	7.0 g/10 min		ASTM D1238
收缩率 - 流动 (3.20 mm)	0.50 到 0.70 %		Internal Method
吸水率			ASTM D570
24 hr	0.15 %		
平衡, 23°C	0.35 %		
平衡, 100°C	0.58 %		
室外适用性	f2		UL 746C
机械性能	额定值	单位制	测试方法
抗张强度 <sup>4</sup>			ASTM D638
屈服	62.1 MPa		
断裂	65.5 MPa		
伸长率 <sup>4</sup>			ASTM D638
屈服	7.0 %		
断裂	110 %		
弯曲模量 <sup>5</sup> (50.0 mm 跨距)	2340 MPa		ASTM D790
弯曲强度 <sup>5</sup> (屈服, 50.0 mm 跨距)	93.1 MPa		ASTM D790
抗泰伯磨损 (1000 Cycles, 1000 g, CS-17 转轮)	10.0 mg		ASTM D1044
冲击性能	额定值	单位制	测试方法
悬臂梁缺口冲击强度 (23°C)	750 J/m		ASTM D256
无缺口悬臂梁冲击 (23°C)	3200 J/m		ASTM D4812
落锤冲击 (23°C)	169 J		ASTM D3029
拉伸冲击强度 <sup>6</sup>	546 kJ/m <sup>2</sup>		ASTM D1822
硬度	额定值	单位制	测试方法
洛氏硬度			ASTM D785
M 计秤	70		
R 计秤	118		
热性能	额定值	单位制	测试方法
热变形温度			ASTM D648
0.45 MPa, 未退火, 6.40 mm	138 °C		
1.8 MPa, 未退火, 6.40 mm	132 °C		

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热性能	额定值 单位制	测试方法
维卡软化温度	154 °C	ASTM D1525 <sup>7</sup>
Ball Pressure Test (125°C)	Pass	IEC 60695-10-2
线形膨胀系数 - 流动 (-40 到 95°C)	0.000068 cm/cm/°C	ASTM E831
比热	1260 J/kg/°C	ASTM C351
导热系数	0.29 W/m/K	ASTM C177
RTI Elec	80.0 °C	UL 746
RTI Imp	80.0 °C	UL 746
RTI Str	80.0 °C	UL 746
电气性能	额定值 单位制	测试方法
体积电阻率	> 1.0E+17 ohm·cm	ASTM D257
介电强度 (3.20 mm, in Air)	15 kV/mm	ASTM D149
介电常数		ASTM D150
50 Hz	3.17	
60 Hz	3.17	
1 MHz	2.96	
耗散因数		ASTM D150
50 Hz	0.00090	
60 Hz	0.00090	
1 MHz	0.010	
相比耐漏电起痕指数(CTI)	PLC 3	UL 746
高电弧燃烧指数(HAI)	PLC 1	UL 746
热丝引燃 (HWI)	PLC 3	UL 746
可燃性	额定值 单位制	测试方法
UL 阻燃等级 (1.20 mm)	V-2	UL 94
灼热丝易燃指数		IEC 60695-2-12
0.750 mm	750 °C	
1.50 mm	850 °C	
热灯丝点火温度		IEC 60695-2-13
0.750 mm <sup>8</sup>	875 °C	
1.50 mm	850 °C	
注射	额定值 单位制	
干燥温度	121 °C	
干燥时间	3.0 到 4.0 hr	
干燥时间, 最大	48 hr	
建议的最大水分含量	0.020 %	
建议注入量	40 到 60 %	
螺筒后部温度	288 到 310 °C	
螺筒中部温度	299 到 321 °C	
螺筒前部温度	310 到 332 °C	
射嘴温度	304 到 327 °C	
加工 (熔体) 温度	310 到 332 °C	
模具温度	82.2 到 116 °C	
背压	0.345 到 0.689 MPa	
螺杆转速	40 到 70 rpm	
排气孔深度	0.025 到 0.076 mm	

备注

<sup>1</sup> 通过这些链接您能够访问供应商资料。我们尽量保证及时更新资料；不过您可以从供应商处了解最新资料。

<sup>2</sup> UL 黄卡含有 UL 验证的易燃性和电气特性。UL IDES 持续努力在 Prospector 中将黄卡链接至单个塑料材料，然而此列表可能未包括所有相应链接。重要的是，我们对 Prospector 中找到的这些黄卡和塑料材料之间的关联进行验证。如需完整的黄卡列表，请访问 UL 黄卡搜索。

<sup>3</sup> 一般属性：这些不能被视为规格。

<sup>4</sup> 类型 1, 50 mm/min

<sup>5</sup> 1.3 mm/min

<sup>6</sup> Type S

<sup>7</sup> 标准 B (120°C/h), 压力 2 (50N)

<sup>8</sup> by VDE

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### 购买地点

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#### 供应商

**SABIC Innovative Plastics Asia Pacific**

Shanghai, China

电话: 86-21-3222-4500

Web: <http://www.sabic-ip.com/>

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#### 分销商

请联系供应商以便为 LEXAN™ LUX2614 resin 查找分销商



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