

SABIC LEXAN™ PC EM3110物性表

| 属性 | 典型值 | UNITS | 测试手段 |
|--|----------|----------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 57 | MPa | ASTM D638 |
| Tensile Strain, brk, Type I, 50 mm/min | 110 | % | ASTM D638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 81 | MPa | ASTM D790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2030 | MPa | ASTM D790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 640 | J/m | ASTM D256 |
| Izod Impact, notched, -20°C | 587 | J/m | ASTM D256 |
| Izod Impact, notched, -30°C | 213 | J/m | ASTM D256 |
| Izod Impact, notched, 23°C, 6.4mm | 213 | J/m | ASTM D256 |
| Instrumented Dart Impact Energy @ peak, 23°C | 56 | J | ASTM D3763 |
| THERMAL | | | |
| HDT, 1.82 MPa, 3.2mm, unannealed | 118 | °C | ASTM D648 |
| HDT, 0.45 MPa, 6.4 mm, unannealed | 126 | °C | ASTM D648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 123 | °C | ASTM D648 |
| CTE, -40°C to 95°C, flow | 6.48E-05 | 1/°C | ASTM E831 |
| Relative Temp Index, Elec | 80 | °C | UL 746B |
| Relative Temp Index, Mech w/impact | 80 | °C | UL 746B |
| Relative Temp Index, Mech w/o impact | 80 | °C | UL 746B |
| PHYSICAL | | | |
| Specific Gravity | 1.19 | - | ASTM D792 |
| Water Absorption, (23°C/24hrs) | 0.16 | % | ASTM D570 |
| Mold Shrinkage, flow, 3.2 mm | 0.5-0.7 | % | SABIC method |
| Melt Flow Rate, 300°C/1.2 kgf | 20 | g/10 min | ASTM D1238 |

FLAME CHARACTERISTICS

| | | | |
|--|------|----|-------|
| UL Recognized, 94HB Flame Class Rating | 1.47 | mm | UL 94 |
|--|------|----|-------|

Injection Molding

| | | |
|-----------------------------|-------------|-----|
| Drying Temperature | 120 | °C |
| Drying Time | 3-4 | Hrs |
| Drying Time (Cumulative) | 10 | Hrs |
| Maximum Moisture Content | 0.02 | % |
| Melt Temperature | 275-300 | °C |
| Nozzle Temperature | 270-295 | °C |
| Front - Zone 3 Temperature | 275-300 | °C |
| Middle - Zone 2 Temperature | 265-290 | °C |
| Rear - Zone 1 Temperature | 255-275 | °C |
| Mold Temperature | 70-95 | °C |
| Back Pressure | 0.3-0.7 | MPa |
| Screw Speed | 40-70 | rpm |
| Shot to Cylinder Size | 40-60 | % |
| Vent Depth | 0.025-0.076 | mm |

此数据由我们从该材料的生产商处获得。我们尽最大努力确保此数据的准确性，但是我们对这些数据值不承担任何责任，并强烈建议在最终选料前，就数据值与材料供应商进行验证。