

SABIC LEXAN™ PC IR2040物性表

| 属性 | 典型值 | UNITS | 测试手段 |
|----------------------------------------------|----------|-------------------|------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 50 mm/min | 63 | MPa | ASTM D638 |
| Tensile Stress, brk, Type I, 50 mm/min | 68 | MPa | ASTM D638 |
| Tensile Strain, yld, Type I, 50 mm/min | 7 | % | ASTM D638 |
| Tensile Strain, brk, Type I, 50 mm/min | 125 | % | ASTM D638 |
| Tensile Modulus, 50 mm/min | 2380 | MPa | ASTM D638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 96 | MPa | ASTM D790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2340 | MPa | ASTM D790 |
| Tensile Stress, yield, 50 mm/min | 63 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min | 65 | MPa | ISO 527 |
| Tensile Strain, yield, 50 mm/min | 6 | % | ISO 527 |
| Tensile Strain, break, 50 mm/min | 100 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 2350 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 90 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 2300 | MPa | ISO 178 |
| IMPACT | | | |
| Izod Impact, unnotched, 23°C | 3204 | J/m | ASTM D4812 |
| Izod Impact, notched, 23°C | 700 | J/m | ASTM D256 |
| Izod Impact, notched 80*10*4 +23°C | 12 | kJ/m ² | ISO 180/1A |
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 154 | °C | ASTM D1525 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 125 | °C | ASTM D648 |
| CTE, -40°C to 95°C, flow | 6.84E-05 | 1/°C | ASTM E831 |
| Vicat Softening Temp, Rate B/120 | 141 | °C | ISO 306 |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm | 122 | °C | ISO 75/Ae |

| PHYSICAL | | | |
|---------------------------------------|----------------|-------------------------|--------------|
| Specific Gravity | 1.2 | - | ASTM D792 |
| Mold Shrinkage, flow, 3.2 mm | 0.5-0.7 | % | SABIC method |
| Melt Flow Rate, 300°C/1.2 kgf | 18 | g/10 min | ASTM D1238 |
| Density | 1.2 | g/cm ³ | ISO 1183 |
| Water Absorption, (23°C/saturated) | 0.35 | % | ISO 62-1 |
| Moisture Absorption (23°C / 50% RH) | 0.15 | % | ISO 62 |
| Melt Volume Rate, MVR at 300°C/1.2 kg | 21 | cm ³ /10 min | ISO 1133 |
| FLAME CHARACTERISTICS | | | |
| UL Yellow Card Link | E121562-220863 | - | - |
| Injection Molding | | | |
| Drying Temperature | 120 | °C | |
| Drying Time | 3-4 | Hrs | |
| Drying Time (Cumulative) | 48 | Hrs | |
| Maximum Moisture Content | 0.02 | % | |
| Melt Temperature | 280-305 | °C | |
| Nozzle Temperature | 275-300 | °C | |
| Front - Zone 3 Temperature | 280-305 | °C | |
| Middle - Zone 2 Temperature | 270-295 | °C | |
| Rear - Zone 1 Temperature | 260-280 | °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。