

SABIC CYCOLAC™ ABS MG94F物性表

| 属性 | 典型值 | UNITS | 测试手段 |
|---|---------|-------------------|-------------|
| MECHANICAL | | | |
| Tensile Stress, yield, 5 mm/min | 40 | MPa | ISO 527 |
| Tensile Stress, break, 5 mm/min | 35 | MPa | ISO 527 |
| Tensile Stress, yield, 50 mm/min | 45 | MPa | ISO 527 |
| Tensile Stress, break, 50 mm/min | 35 | MPa | ISO 527 |
| Tensile Strain, yield, 5 mm/min | 2 | % | ISO 527 |
| Tensile Strain, break, 5 mm/min | 35 | % | ISO 527 |
| Tensile Strain, yield, 50 mm/min | 2.2 | % | ISO 527 |
| Tensile Strain, break, 50 mm/min | 45 | % | ISO 527 |
| Tensile Modulus, 1 mm/min | 2400 | MPa | ISO 527 |
| Flexural Stress, yield, 2 mm/min | 65 | MPa | ISO 178 |
| Flexural Modulus, 2 mm/min | 2450 | MPa | ISO 178 |
| Ball Indentation Hardness, H358/30 | 95 | MPa | ISO 2039-1 |
| Hardness, Rockwell R | 129 | - | ISO 2039-2 |
| IMPACT | | | |
| Izod Impact, notched 80*10*4 +23°C | 18 | kJ/m ² | ISO 180/1A |
| Izod Impact, notched 80*10*4 -30°C | 7 | kJ/m ² | ISO 180/1A |
| Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm | 23 | kJ/m ² | ISO 179/1eA |
| Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm | 10 | kJ/m ² | ISO 179/1eA |
| THERMAL | | | |
| CTE, 23°C to 60°C, flow | 8.7E-05 | 1/°C | ISO 11359-2 |
| CTE, 23°C to 60°C, xflow | 8.7E-05 | 1/°C | ISO 11359-2 |
| Vicat Softening Temp, Rate B/50 | 99 | °C | ISO 306 |
| Vicat Softening Temp, Rate B/120 | 100 | °C | ISO 306 |
| HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm | 91 | °C | ISO 75/Be |
| HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm | 80 | °C | ISO 75/Ae |
| PHYSICAL | | | |

| | | | |
|---|------------------|-------------------------|----------------|
| Mold Shrinkage on Tensile Bar, flow | 0.5-0.7 | % | SABIC method |
| Density | 1.04 | g/cm ³ | ISO 1183 |
| Moisture Absorption (23°C / 50% RH) | 0.16 | % | ISO 62 |
| Melt Volume Rate, MVR at 220°C/10.0 kg | 39 | cm ³ /10 min | ISO 1133 |
| Melt Flow Rate, 230°C/3.8 kg | 11.7 | g/10 min | ASTM D1238 |
| Melt Flow Rate, 220°C/5.0 kg | 12 | g/10 min | ISO 1133 |
| FLAME CHARACTERISTICS | | | |
| UL Yellow Card Link | E45329-102071280 | - | - |
| Glow Wire Flammability Index 650°C, passes at | 3.2 | mm | IEC 60695-2-12 |
| Injection Molding | | | |
| Drying Temperature | 85-95 | °C | |
| Drying Time | 2-4 | Hrs | |
| Maximum Moisture Content | 0.1 | % | |
| Melt Temperature | 220-260 | °C | |
| Nozzle Temperature | 210-250 | °C | |
| Front - Zone 3 Temperature | 220-260 | °C | |
| Middle - Zone 2 Temperature | 220-260 | °C | |
| Rear - Zone 1 Temperature | 200-240 | °C | |
| Hopper Temperature | 60-80 | °C | |
| Mold Temperature | 40-80 | °C | |

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。