

SABIC CYCOLAC™ ABS GX3800F物性表

| 属性 | 典型值 | UNITS | 测试手段 |
|--|----------|-------------------------|--------------|
| MECHANICAL | | | |
| Tensile Stress, yld, Type I, 5 mm/min | 39 | MPa | ASTM D638 |
| Tensile Stress, brk, Type I, 5 mm/min | 30 | MPa | ASTM D638 |
| Tensile Strain, yld, Type I, 5 mm/min | 3.1 | % | ASTM D638 |
| Tensile Strain, brk, Type I, 5 mm/min | 31.6 | % | ASTM D638 |
| Tensile Modulus, 5 mm/min | 2080 | MPa | ASTM D638 |
| Flexural Stress, yld, 1.3 mm/min, 50 mm span | 66 | MPa | ASTM D790 |
| Flexural Modulus, 1.3 mm/min, 50 mm span | 2160 | MPa | ASTM D790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 432 | J/m | ASTM D256 |
| Izod Impact, notched, -30°C | 299 | J/m | ASTM D256 |
| Instrumented Dart Impact Total Energy, 23°C | 50 | J | ASTM D3763 |
| THERMAL | | | |
| Vicat Softening Temp, Rate B/50 | 106 | °C | ASTM D1525 |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 93 | °C | ASTM D648 |
| HDT, 1.82 MPa, 3.2mm, unannealed | 80 | °C | ASTM D648 |
| CTE, -40°C to 40°C, flow | 1.01E-04 | 1/°C | ASTM E831 |
| CTE, -40°C to 40°C, xflow | 1.04E-04 | 1/°C | ASTM E831 |
| PHYSICAL | | | |
| Specific Gravity | 1.03 | - | ASTM D792 |
| Mold Shrinkage, flow, 3.2 mm | 0.6-0.8 | % | SABIC method |
| Melt Viscosity, 240°C, 100 sec ⁻¹ | 14000 | Poise | ASTM D3825 |
| Melt Volume Rate, MVR at 220°C/10.0 kg | 4 | cm ³ /10 min | ISO 1133 |
| Extrusion Blow Molding | | | |

| | | |
|------------------------------------|---------|-----|
| Drying Temperature | 80-90 | °C |
| Drying Time | 4-5 | Hrs |
| Drying Time (Cumulative) | 24 | Hrs |
| Maximum Moisture Content | 0.02 | % |
| Melt Temperature (Parison) | 215-230 | °C |
| Barrel - Zone 1 Temperature | 205-225 | °C |
| Barrel - Zone 2 Temperature | 205-225 | °C |
| Barrel - Zone 3 Temperature | 205-225 | °C |
| Barrel - Zone 4 Temperature | 205-225 | °C |
| Adapter - Zone 5 Temperature | 210-230 | °C |
| Head - Zone 6 - Top Temperature | 215-230 | °C |
| Head - Zone 7 - Bottom Temperature | 215-230 | °C |
| Screw Speed | 20-60 | rpm |
| Extruder Feed Zone Temperature | 60-75 | °C |
| Mold Temperature | 40-80 | °C |
| Die Temperature | 215-235 | °C |

Sheet Extrusion

| | | |
|-----------------------------|---------|-----|
| Drying Temperature | 80-95 | °C |
| Drying Time | 4 | Hrs |
| Maximum Moisture Content | 0.02 | % |
| Melt Temperature | 215-260 | °C |
| Barrel - Zone 1 Temperature | 170-200 | °C |
| Barrel - Zone 2 Temperature | 180-220 | °C |
| Barrel - Zone 3 Temperature | 190-225 | °C |
| Barrel - Zone 4 Temperature | 200-240 | °C |
| Adapter Temperature | 205-250 | °C |
| Die Temperature | 205-250 | °C |
| Roll Stack Temp - Top | 90-95 | °C |
| Roll Stack Temp - Middle | 95-105 | °C |
| Roll Stack Temp - Bottom | 100-105 | °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。