

Cycoloy* Resin C1100HF

Asia Pacific: LIMITED USE

CYCOLOY C1100HF is the improved flow PC/ABS Blend that has been developed to better fill long and complex parts while maintaining still excellent mechanical properties.

| TYPICAL PROPERTIES ¹ | TYPICAL VALUE | UNIT | STANDARD |
|--|-----------------|---------------------|----------------------|
| MECHANICAL | | | |
| Tensile Stress, yield | 530 | kgf/cm ² | SABIC - Japan Method |
| Tensile Strain, break | 200 - 200 | % | SABIC - Japan Method |
| Flexural Stress | 800 | kgf/cm ² | ASTM D 790 |
| Flexural Modulus | 21900 | kgf/cm ² | ASTM D 790 |
| IMPACT | | | |
| Izod Impact, notched, 23°C | 54 | cm-kgf/cm | ASTM D 256 |
| THERMAL | | | |
| HDT, 0.45 MPa, 3.2 mm, unannealed | 110 | °C | ASTM D 648 |
| HDT, 1.82 MPa, 6.4 mm, unannealed | 110 | °C | ASTM D 648 |
| CTE, -30°C to 30°C | 6.E-05 - 8.E-05 | 1/°C | TMA |
| PHYSICAL | | | |
| Specific Gravity | 1.13 | - | ASTM D 792 |
| Water Absorption, 24 hours | 0.2 | % | ASTM D 570 |
| Mold Shrinkage, flow, 3.2 mm (5) | 0.4 - 0.6 | % | SABIC Method |
| FLAME CHARACTERISTICS | | | |
| UL Recognized, 94HB Flame Class Rating (3) | 1.5 | mm | UL 94 |

1) Typical values only. Variations within normal tolerances are possible for various colours. All values are measured at least after 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

2) Only typical data for material selection purpose. Not to be used for part or tool design.
3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.
4) Own measurement according to UL.
5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and tool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

Source, GMD, Last Update:

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