

# HI TEMP 300-AMB

## Ultra-High Temperature

Testing and use in high heat environments

*Simulating amber plastic, this an industry leading, ultra-high temperature resistant rigid plastic suitable for the harshest environments.*



### Benefits

- **Tough, translucent parts that can be tested up to 300°C**
- **Production-grade quality**
- **No secondary thermal post-cure required**

### Applications

- High temperature components testing, and general use parts including HVAC, consumer appliances, motor enclosures, stators, etc.
- Low pressure moulding/tooling: expanding foams, rubbers, etc.
- Overmoulding
- HDT over 300 °C at both low and high stress



### Physical Properties

|        |       |
|--------|-------|
| Colour | Amber |
| Type   | ABS   |

### Liquid Material

|                        |                      |
|------------------------|----------------------|
| Solid Density (@ 25°C) | 1.3g/cm <sup>3</sup> |
| Layer Thickness (mm)   | 0.10                 |

### Mechanical Properties

|                                  |                | TEST/ISO   |
|----------------------------------|----------------|------------|
| Tensile Strength (MPa)           | <b>77</b>      | ASTM D638  |
| Tensile Modulus (MPa)            | <b>4100</b>    |            |
| Elongation Break (%)             | <b>2.3</b>     |            |
| Flex Strength (MPa)              | <b>85</b>      | ASTM D624  |
| Flex Modulus (MPa)               | <b>4300</b>    | ASTM D395  |
| Izod Notched Impact (J/m)        | <b>10</b>      | ASTM D256  |
| Heat Deflection Temperature (°C) | <b>&gt;300</b> | ASTM D648  |
| Hardness, Shore                  | <b>89D</b>     | ASTM D2240 |
| UL Flammability                  | <b>HB</b>      | UL 94      |

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