



**Product Data Sheet &  
General Processing Conditions**

**RTP 301 EM L HB  
Polycarbonate (PC)  
Glass Fiber  
Easy Molding  
Lubricated  
UL94 HB**



**PROPERTIES & AVERAGE VALUES OF INJECTION MOLDED SPECIMENS**

| <b>PERMANENCE</b>                            | <b>English</b>        | <b>SI Metric</b> | <b>ASTM TEST</b> |
|--|-----------------------|------------------|------------------|
| Primary Additive                             | 10 %                  | 10 %             |                  |
| Specific Gravity                             | 1.24                  | 1.24             | D 792            |
| Molding Shrinkage<br>1/8 in (3.2 mm) section | 0.0040 - 0.0060 in/in | 0.40 - 0.60 %    | D 955            |
| Water Absorption, 24 hrs @ 23°C              | 0.150 %               | 0.150 %          | D 570            |

**MECHANICAL**

|  |                            |          |        |
|--|----------------------------|----------|--------|
| Impact Strength, Izod<br>notched 1/8 in (3.2 mm) section | 5.5 ft-lbs/in              | 294 J/m  | D 256  |
| unnotched 1/8 in (3.2 mm) section                        | No Break                   | No Break | D 4812 |
| Tensile Strength   | 8000 psi                   | 55 MPa   | D 638  |
| Tensile Elongation                                       | > 10.0 %                   | > 10.0 % | D 638  |
| Tensile Modulus  | 0.55 x 10 <sup>6</sup> psi | 3792 MPa | D 638  |
| Flexural Strength  | 14000 psi                  | 97 MPa   | D 790  |
| Flexural Modulus   | 0.50 x 10 <sup>6</sup> psi | 3448 MPa | D 790  |

**ELECTRICAL**

|                    |               |               |       |
|--------------------|---------------|---------------|-------|
| Volume Resistivity | > 1E16 ohm.cm | > 1E16 ohm.cm | D 257 |
|--------------------|---------------|---------------|-------|

**THERMAL**

|  |              |             |       |
|--|--------------|-------------|-------|
| Deflection Temperature<br>@ 264 psi (1820 kPa) | 290 °F       | 143 °C      | D 648 |
| @ 66 psi (455 kPa)                             | 295 °F       | 146 °C      | D 648 |
| Ignition Resistance*<br>Flammability           | HB @ 1/16 in | HB @ 1.5 mm | UL94  |

**PROPERTY NOTES**

Data herein is typical and not to be construed as specifications.

Unless otherwise specified, all data listed is for natural or black colored materials. Pigments can affect properties.

\* This rating is not intended to reflect hazards of this or any other material under actual fire conditions.

**GENERAL PROCESSING FOR INJECTION MOLDING**

|                    | <b>English</b>    | <b>SI Metric</b> |
|--------------------|-------------------|------------------|
| Injection Pressure | 10000 - 15000 psi | 69 - 103 MPa     |
| Melt Temperature   | 550 - 600 °F      | 288 - 316 °C     |
| Mold Temperature   | 180 - 250 °F      | 82 - 121 °C      |
| Drying             | 4 hrs @ 250 °F    | 4 hrs @ 121 °C   |
| Moisture Content   | 0.02 %            | 0.02 %           |
| Dew Point          | -20 °F            | -29 °C           |

**PROCESSING NOTES**