Polycarbonate

| General Information |  |  |
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| Product Description |  |  |
| Glass fiber reinforced polycarbonate |  |  |
| FEATURES | ADDITIONAL FORMULAS |  |
| -40\% Glass Fiber Reinforced | -Added Release "R" |  |
| -Great Strength | -Added UV "U" |  |
| -Good Creep Resistance |  |  |
| -Low Flow |  |  |
| General |  |  |
| Typical Applications -Appliance, electric | rical, lawn \& garden, automotive, electronic |  |
| Processing Method -Injection |  |  |
| Form(s) -Pellets |  |  |
| Availability -North America, E | Europe, Asia, Latin America |  |
| ASTM / ISO Properties ${ }^{1}$ |  |  |
| Physical | Nominal Value Unit | Test Method |
| Density | $1.52 \mathrm{~g} / \mathrm{cm}^{3}$ | ASTM D792 |
| Melt Flow Rate ( $300^{\circ} \mathrm{C} / 1.2 \mathrm{~kg}$ ) | $8 \mathrm{~g} / 10 \mathrm{~min}$ | ASTM D1238 |
| Molding Shrinkage - Flow (3.2mm) | 0.1 to 0.3 \% | TVT Internal |
| Outdoor Suitability - QUV ("U" grades only) | Pass | QUV - TVT Internal |
| Mechanical | Nominal Value Unit | Test Method |
| Tensile Strength, yld | 20,000 psi | ASTM D638 |
| Tensile Elongation | >2 \% | ASTM D638 |
| Flexural Modulus | 1350000 psi | ASTM D790 |
| Notched Izod Impact | $2.0 \mathrm{ft}-\mathrm{lbs} / \mathrm{in}$ | ASTM D256 |
| Rockwell Hardness | 123 R-Scale | ASTM D785 |
| Thermal | Nominal Value Unit | Test Method |
| Deflection Temperature Under Load (0.45 MPa) | ) $302{ }^{\circ} \mathrm{F}$ | ASTM D648 |
| Deflection Temperature Under Load (1.8 MPa) | $289{ }^{\circ} \mathrm{F}$ | ASTM D648 |
| Vicat Softening Temperature | $309{ }^{\circ} \mathrm{F}$ | ASTM D1525 |
| CLTE - Flow | $1.5 \mathrm{E}-5 \mathrm{in} / \mathrm{in} /{ }^{\circ} \mathrm{F}$ | ASTM E831 |
| Flammability | Nominal Value Unit | Test Method |
| 0.06 in | HB | UL94 TVT Internal |
| Recommended Processing Guidance |  |  |
| Drying Temperature | 230 to $260{ }^{\circ} \mathrm{F}$ |  |
| Drying Time | 3 to 6 Hours |  |
| Suggested Max Moisture | 0.02 \% |  |
| Processing Melt Temperature | 600 to $650{ }^{\circ} \mathrm{F}$ |  |
| Mold Temperature | 180 to $250{ }^{\circ} \mathrm{F}$ |  |
|  recommended that application properties be derived from actual molded articles, whereas properties as molded could vary. These are not to be used as specifications. This data does not provide an implied conditional warranty. |  |  |

