

PBT MOLDING COMPOUNDS TYPICAL PROPERTIES

| Properties | Test Method | Units | PBT Neat 30-1000 | PBT 15% Glass Reinforced 30-1003 | PBT 30% Glass Reinforced 30-1006 | PBT Glass Reinforced 30 Falme Retardent 30-1008 |
|---|-------------|-------------------------------|------------------|----------------------------------|----------------------------------|---|
| Physical | | | | | | |
| Specific Gravity | ASTM-D792 | ---- | 1.31 | 1.41 | 1.53 | 1.62 |
| Water Absorption (24 hr) | ASTM-D570 | % | 0.08 | 0.09 | 0.06 | 0.06 |
| Mechanical | | | | | | |
| Tensile Strength | ASTM-D638 | psi | 7,800 | 13,000 | 18,000 | 16,700 |
| Tensile Elongation | ASTM-D638 | % | 100 | 5 | 3 | 3 |
| Flexural Strength | ASTM-D790 | psi | 10,900 | 21,000 | 26,000 | 25,000 |
| Flexural Modulus | ASTM-D790 | psi | 330,000 | 670,000 | 1,100,000 | 1,200,000 |
| Izod Impact Strength | | ft. lb./in. | | | | |
| Notched (1/8") | | | 1.0 | 1.1 | 1.7 | 1.2 |
| Unnotched (1/8") | | | | 10 | 14.5 | 13 |
| Rockwell Hardness | ASTM-D785 | R Scale | 116 | 118 | 119 | 119 |
| | | M Scale | | | 84 | |
| Thermal | | | | | | |
| Heat Deflection Temp. | ASTM-D648 | °F | | | | |
| 66 psi | | | 310 | 430 | 430 | 415 |
| 264 psi | | | 150 | 385 | 405 | 395 |
| Coefficient of Linear Thermal Expansion | ASTM-D696 | in./in./°F X 10 ⁻⁵ | 4.0 | 3 | 1.6 | 1.7 |
| Electrical | | | | | | |
| Dialectric Strength (S-T) | ASTM-D149 | volts/mil | 400 | | 520 | |
| Miscellaneous | | | | | | |
| Flammability | UL Subj. 94 | ---- | HB | HB* | HB | V-0 |
| Mold Shrinkage (1/8") | ASTM-D955 | in./in. | 0.012 | 0.006 | 0.003 | 0.005 |

****Flame retardant grades also available.***

Suggested processing parameters are available upon request. Seller is not responsible or liable for any loss or damage resulting from product use, and no warranty is stated or implied.

