

Technical Data Sheet

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Material: Ecomass[®] Compound 4703ZB92

Nontoxic alternative to Lead (Pb), radiation shielding applications

Description / Features: Moderate Specific Gravity, Filled Polyurethane (TPU) Base Resin

Processing Method: Injection Molding

Physical Properties

| | Test Method | Value | Units |
|--|---|---------------|----------|
| Physical Properties | T CSt Wicthou | value | Offits |
| Product Form | | Pellets | |
| Specific Gravity | ASTM D792 | 6.90 | |
| • | | | |
| Mechanical Properties | | | |
| Tensile Strength | ASTM D638 | 1,600 | psi |
| Tensile Modulus | ASTM D638 | 97,000 | psi |
| Tensile Elongation at Break | ASTM D638 | 15 | % |
| Flexural Modulus | ASTM D790 | 65,000 | psi |
| Flexural Strength | ASTM D790 | 3,000 | psi |
| Izod Impact Strength, notched | ASTM D256 | 3.0 | ft-lb/in |
| | | | |
| Thermal Properties | | | |
| Heat Deflection Temperature at 66 psi | ASTM D648 | N/A | °F |
| Heat Deflection Temperature at 264 psi | ASTM D648 | N/A | °F |
| Electrical Properties | | | |
| Surface Resistivity | ASTM D257 | N/A | ohms/sq |
| Day and the later of the | | | |
| Processing Information | | | |
| Melt Temperature Range | | 400 - 430 | °F |
| Mold Temperature Range | | 50 - 80 | °F |
| Mold Shrinkage Rate | | 0.003 - 0.005 | in/in |
| Pre-Drying Conditions | 2 hrs at 200°F then reduce to 160°F (do not over-dry) | | |

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