



The strength of chemicals.

4917 Golden Parkway, Suite 300
Buford, GA 30518
770-237-2311



Technical Data Sheet

Preliminary

Material: Ecomass® Compound 1950ZC84

Nontoxic alternative to Lead (Pb), weighting, balancing and radiation shielding applications

Description / Features: Stainless Steel Powder Filled Polyamide (PA6/10), Very Good Toughness

Processing Method: Injection Molding

Physical Properties

| | Test Method | Value | Units |
|--|-------------|---|---------|
| Physical Properties | | | |
| Product Form | | Pellets | |
| Specific Gravity | Internal | 3.80 | |
| Mechanical Properties | | | |
| Tensile Strength | ISO 527 | 27 | Mpa |
| Tensile Modulus | ISO 527 | 7583 | Mpa |
| Tensile Elongation at Break | ISO 527 | 0.5 | % |
| Flexural Modulus | ISO 178 | 6250 | Mpa |
| Izod Impact Strength, notched | ISO 180/A | 5.7 | KJ/m |
| Thermal Properties | | | |
| Heat Deflection Temperature at 66 psi | ASTM D648 | N/A | °C |
| Heat Deflection Temperature at 264 psi | ASTM D648 | N/A | °C |
| Electrical Properties | | | |
| Surface Resistivity | | N/A | ohms/sq |
| Processing Information | | | |
| Melt Temperature Range | | 230 - 250 | °C |
| Mold Temperature Range | | 65 - 80 | °C |
| Mold Shrinkage Rate | Internal | 0.010 - 0.012 | mm/mm |
| Pre-Drying Conditions | | 4 - 6 hrs @ 80°C, target moisture < 0.20% | |

The information provided above is based on laboratory testing using test methods indicated and is believed to represent nominal results of those tests. Because conditions under which this material may be processed, tested or used cannot be anticipated, no warranty is given, either expressed or implied, as to the accuracy or reproducibility of this information or for the fitness of this material for any particular use. This material is sold with the express understanding that purchasers, processors or other users of this material have sole responsibility, through performance of their own testing, to determine the suitability of this material for any particular use.

Ecomass® Compounds are manufactured by DOMO Engineering Plastics US under license from Ecomass Technologies

Ecomass® is a registered trademark