



Technical Data Sheet

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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% | |

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