


Technical Data Sheet

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Preliminary

Material:  **Ecomass® Compound 1850ZD96**
Nontoxic alternative to Lead (Pb), weighting and balancing applications

Description / Features: High Specific Gravity, Tungsten Powder Filled Polyamide 6 (PA6), Rigid
Processing Method: Injection Molding

Physical Properties

| | Test Method | Value | Units |
|----------------------------|-------------|---------|-------|
| Physical Properties | | | |
| Product Form | | Pellets | |
| Specific Gravity | ASTM D792 | 10.0 | g/cc |

| | | | |
|------------------------------|-----------|-----------|----------|
| Mechanical Properties | | | |
| Tensile Strength | ASTM D638 | 7,900 | psi |
| Tensile Modulus | ASTM D638 | NA | psi |
| Tensile Elongation at Break | ASTM D638 | 3 | % |
| Flexural Modulus | ASTM D790 | 2,600,000 | psi |
| Flexural Strength | ASTM D790 | 10,500 | psi |
| Izod Impact Strength | ASTM D256 | 1.5 | ft-lb/in |

| | | | |
|--|-----------|-----|----|
| Thermal Properties | | | |
| Heat Deflection Temperature at 66 psi | ASTM D648 | 160 | °F |
| Heat Deflection Temperature at 264 psi | ASTM D648 | 140 | °F |

| | | | |
|------------------------------|-----------|----|---------|
| Electrical Properties | | | |
| Surface Resistivity | ASTM D257 | NA | ohms/sq |

| | | | |
|-------------------------------|--|--------------------|-------|
| Processing Information | | | |
| Melt Temperature Range | | 490 - 550 | °F |
| Mold Temperature Range | | 150 - 180 | °F |
| Mold Shrinkage Rate | | .004 - .006 | in/in |
| Pre-Drying Conditions | | 2 - 4 hours @ 165F | |

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