

**Ecomass® Compound 1700ZC89**

PA12-MED(x)

DOMO Engineering Plastics

**Product Texts**

Nontoxic alternative to Lead (Pb)

**Processing/Physical Characteristics**

|                    | Value | Unit  | Test Standard |
|--------------------|-------|-------|---------------|
| <b>ASTM Data</b>   |       |       |               |
| Mold Shrinkage, MD | 0.005 | mm/mm | ASTM D 955    |

**Mechanical properties**

|                             | Value | Unit | Test Standard |
|-----------------------------|-------|------|---------------|
| <b>ASTM Data</b>            |       |      |               |
| Tensile Modulus             | 10340 | MPa  | ASTM D 638    |
| Tensile Strength            | 51.7  | MPa  | ASTM D 638    |
| Elongation at Break         | 1.25  | %    | ASTM D 638    |
| Flexural Modulus            | 8274  | MPa  | ASTM D 790    |
| Flexural Strength           | 65.5  | MPa  | ASTM D 790    |
| Izod Impact notched, 1/8 in | 80.1  | J/m  | ASTM D 256    |

**Thermal properties**

|                  | Value | Unit | Test Standard |
|------------------|-------|------|---------------|
| <b>ASTM Data</b> |       |      |               |
| DTUL @ 66 psi    | 159   | °C   | ASTM D 648    |
| DTUL @ 264 psi   | 155   | °C   | ASTM D 648    |

**Electrical properties**

|                     | Value | Unit | Test Standard |
|---------------------|-------|------|---------------|
| <b>ASTM Data</b>    |       |      |               |
| Surface Resistivity | 0.2   | Ohm  | ASTM D 257    |

**Other properties**

|         | Value | Unit              | Test Standard |
|---------|-------|-------------------|---------------|
| Density | 4500  | kg/m <sup>3</sup> | ASTM D 792    |

**Processing Recommendation Injection Molding**

|                          | Value       | Unit | Test Standard |
|--------------------------|-------------|------|---------------|
| Pre-drying - Temperature | 73.9        | °C   | -             |
| Pre-drying - Time        | 4           | h    | -             |
| Melt temperature         | 204 - 254   | °C   | -             |
| Mold temperature         | 57.2 - 79.4 | °C   | -             |

**Characteristics****Processing**

Injection Molding

**Chemical Resistance**

Radiation Resistance

**Delivery form**

Pellets

**Regional Availability**

North America

**Features**

EMI Attenuation/Shielding, Low Odor