

# Ecomass® 3011ZD86

Polycarbonate

Ecomass Technologies

## Message:

Ecomass® 3011ZD86 is a Polycarbonate (PC) material filled with tungsten. It is available in North America for injection molding.

Important attributes of Ecomass® 3011ZD86 are:

Good Toughness

Non-Toxic

| General Information          |                       |                   |             |
|------------------------------|-----------------------|-------------------|-------------|
| Filler / Reinforcement       | Tungsten              |                   |             |
| Features                     | Good Toughness        |                   |             |
|                              | High Specific Gravity |                   |             |
|                              | Non-Toxic             |                   |             |
| Uses                         | Radiation Shielding   |                   |             |
| Forms                        | Pellets               |                   |             |
| Processing Method            | Injection Molding     |                   |             |
| Physical                     | Nominal Value         | Unit              | Test Method |
| Density                      | 6.00                  | g/cm <sup>3</sup> | ISO 1183    |
| Molding Shrinkage - Flow     | 0.40                  | %                 | ISO 294-4   |
| Mechanical                   | Nominal Value         | Unit              | Test Method |
| Tensile Stress (Yield)       | 27.0                  | MPa               | ISO 527-2   |
| Tensile Strain (Break)       | 5.0                   | %                 | ISO 527-2   |
| Flexural Modulus             | 5920                  | MPa               | ISO 178     |
| Flexural Stress              | 35.0                  | MPa               | ISO 178     |
| Impact                       | Nominal Value         | Unit              | Test Method |
| Notched Izod Impact Strength | 7.4                   | kJ/m <sup>2</sup> | ISO 180/A   |
| Thermal                      | Nominal Value         | Unit              | Test Method |
| Heat Deflection Temperature  |                       |                   |             |
| 0.45 MPa, Unannealed         | 138                   | °C                | ISO 75-2/B  |
| 1.8 MPa, Unannealed          | 132                   | °C                | ISO 75-2/A  |
| Injection                    | Nominal Value         | Unit              |             |
| Drying Temperature           | 121                   | °C                |             |
| Drying Time                  | 3.0 to 4.0            | hr                |             |
| Processing (Melt) Temp       | 270 to 315            | °C                |             |
| Mold Temperature             | 70.0 to 100           | °C                |             |

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