

## Aardvark Polymers AARTELÂ® 1000 Rotational Molding Resin

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Aartel 1000 is our premium grade of toughened impact modified acetal copolymer. Aartel 1000 is formulated with high impact properties combined with extended mechanical properties and elevated resistance to aggressive chemicals, fuels, and hydrocarbons. Information provided by Gehrig & Associates

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aardvark-Polymers-AARTEL-1000-Rotational-Molding-Resin.php](http://www.lookpolymers.com/polymer_Aardvark-Polymers-AARTEL-1000-Rotational-Molding-Resin.php)

| Physical Properties               | Metric                                                 | English                                                | Comments  |
|-----------------------------------|--------------------------------------------------------|--------------------------------------------------------|-----------|
| Density                           | 1.35 g/cc                                              | 0.0488 lb/inÂ³                                         | ISO 1183  |
| Linear Mold Shrinkage             | 0.016 cm/cm                                            | 0.016 in/in                                            | ISO 294-4 |
| Linear Mold Shrinkage, Transverse | 0.017 cm/cm                                            | 0.017 in/in                                            | ISO 294-4 |
| Melt Flow                         | 2.97 g/10 min<br>@Load 2.16 kg,<br>Temperature 190 Â°C | 2.97 g/10 min<br>@Load 4.76 lb,<br>Temperature 374 Â°F | ISO 1183  |

| Mechanical Properties      | Metric                                   | English                                      | Comments                 |
|----------------------------|------------------------------------------|----------------------------------------------|--------------------------|
| Tensile Strength, Yield    | 45.0 MPa                                 | 6530 psi                                     | (50mm/min); ISO 527-2/1A |
| Elongation at Yield        | 14 %                                     | 14 %                                         | (50mm/min); ISO 527-2/1A |
| Tensile Modulus            | 1.75 GPa                                 | 254 ksi                                      | (1mm/min); ISO 527-2/1A  |
| Flexural Modulus           | 1.62 GPa                                 | 235 ksi                                      | ISO 178                  |
| Izod Impact, Notched (ISO) | 15.0 kJ/mÂ²<br>@Temperature 23.0<br>Â°C  | 7.14 ft-lb/inÂ²<br>@Temperature 73.4 Â°F     | ISO 180/1A               |
| Charpy Impact, Notched     | 1.30 J/cmÂ²<br>@Temperature -30.0<br>Â°C | 6.19 ft-lb/inÂ²<br>@Temperature -22.0<br>Â°F | ISO 179/1e               |
|                            | 1.60 J/cmÂ²<br>@Temperature 23.0<br>Â°C  | 7.61 ft-lb/inÂ²<br>@Temperature 73.4 Â°F     | ISO 179/1e               |

| Thermal Properties                 | Metric  | English | Comments                     |
|------------------------------------|---------|---------|------------------------------|
| Melting Point                      | 164 Â°C | 327 Â°F | (10Â°C/min); ISO 11357-1,2,3 |
| Deflection Temperature at 0.46 MPa |         |         |                              |

| (56 psi)<br>Thermal Properties                 | 137 Â°C<br>Metric | 279 Â°F<br>English | ISO 75-1/-2<br>Comments |
|------------------------------------------------|-------------------|--------------------|-------------------------|
| Deflection Temperature at 1.8 MPa<br>(264 psi) | 69.0 Â°C          | 156 Â°F            | ISO 75-1/-2             |

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