

## Aardvark Polymers AARTEL<sup>®</sup> 850IM Rotational Molding Resin

Category : Polymer , Thermoplastic , Acetal (POM)

### Material Notes:

Aartel 850 IM is a moderately toughened impact modified acetal copolymer which exhibits ductility in bending and impact loading. The ductile, rather than brittle, failure mode gives designers more freedom in many applications. Information provided by Gehrig & Associates

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aardvark-Polymers-AARTEL-850IM-Rotational-Molding-Resin.php](http://www.lookpolymers.com/polymer_Aardvark-Polymers-AARTEL-850IM-Rotational-Molding-Resin.php)

Physical Properties	Metric	English	Comments
Density	1.38 g/cc	0.0499 lb/in <sup>3</sup>	ISO 1183
Linear Mold Shrinkage	0.016 cm/cm	0.016 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.018 cm/cm	0.018 in/in	ISO 294-4
Melt Flow	11.73 g/10 min @Load 2.16 kg, Temperature 190 °C	11.73 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.0 MPa	7980 psi	(50mm/min); ISO 527-2/1A
Elongation at Yield	11 %	11 %	(50mm/min); ISO 527-2/1A
Tensile Modulus	2.15 GPa	312 ksi	(1mm/min); ISO 527-2/1A
Flexural Modulus	1.97 GPa	286 ksi	ISO 178
Izod Impact, Notched (ISO)	8.60 kJ/m <sup>2</sup> @Temperature 23.0 °C	4.09 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	16.0 J/cm <sup>2</sup> @Temperature -30.0 °C	76.1 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1e
Charpy Impact, Notched	0.700 J/cm <sup>2</sup> @Temperature -30.0 °C	3.33 ft-lb/in <sup>2</sup> @Temperature -22.0 °F	ISO 179/1e
	1.05 J/cm <sup>2</sup> @Temperature 23.0 °C	5.00 ft-lb/in <sup>2</sup> @Temperature 73.4 °F	ISO 179/1e

Thermal Properties	Metric	English	Comments
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Melting Point Thermal Properties	165 Â°C Metric	329 Â°F English	(10Â°C/min); ISO 11357-1,2,3 Comments
Deflection Temperature at 0.46 MPa (66 psi)	161 Â°C	322 Â°F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	84.0 Â°C	183 Â°F	ISO 75-1/-2

## Contact Songhan Plastic Technology Co.,Ltd.

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