

Aardvark Polymers AARTEL® 800 Rotational Molding Resin

Category : Polymer , Thermoplastic , Acetal (POM)

Material Notes:

Aartel 800 is our high test, general purpose, acetal copolymer. Aartel 800 provides overall excellent performance for most applications and is available in natural (off white) and a wide range of standard colors. Information provided by Gehrig & Associates

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aardvark-Polymers-AARTEL-800-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	1.41 g/cc	0.0509 lb/in ³	ISO 1183
Linear Mold Shrinkage	0.019 cm/cm	0.019 in/in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.020 cm/cm	0.020 in/in	ISO 294-4
Melt Flow	11.28 g/10 min @Load 2.16 kg, Temperature 190 °C	11.28 g/10 min @Load 4.76 lb, Temperature 374 °F	ISO 1183

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	66.0 MPa	9570 psi	(50mm/min); ISO 527-2/1A
Elongation at Yield	9.7 %	9.7 %	(50mm/min); ISO 527-2/1A
Tensile Modulus	2.76 GPa	400 ksi	(1mm/min); ISO 527-2/1A
Flexural Modulus	2.55 GPa	370 ksi	ISO 178
Izod Impact, Notched (ISO)	5.70 kJ/m ² @Temperature 23.0 °C	2.71 ft-lb/in ² @Temperature 73.4 °F	ISO 180/1A
Charpy Impact Unnotched	18.1 J/cm ² @Temperature -30.0 °C	86.1 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1e
	18.8 J/cm ² @Temperature 23.0 °C	89.5 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1e
Charpy Impact, Notched	0.600 J/cm ² @Temperature -30.0 °C	2.86 ft-lb/in ² @Temperature -22.0 °F	ISO 179/1e
	0.600 J/cm ² @Temperature 23.0	2.86 ft-lb/in ² @Temperature 73.4 °F	ISO 179/1e

Mechanical Properties	^{°C} Metric	English	Comments
Thermal Properties	Metric	English	Comments
Melting Point	165 °C	329 °F	(10°C/min); ISO 11357-1,2,3
Deflection Temperature at 0.46 MPa (66 psi)	161 °C	322 °F	ISO 75-1/-2
Deflection Temperature at 1.8 MPa (264 psi)	101 °C	214 °F	ISO 75-1/-2

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