

## Aardvark Polymers Aarlon® 2000 Rotational Molding Resin, 50% RH

Category : Polymer , Thermoplastic , Nylon , Nylon 66

### Material Notes:

Aarlon® 2000 PA 6/6 is a high performance nylon for rotational molding applications. Aarlon® 2000 offers high heat capabilities with exceptional mechanical properties. Information provided by Gehrig & Associates

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Aardvark-Polymers-Aarlon-2000-Rotational-Molding-Resin-50-RH.php](http://www.lookpolymers.com/polymer_Aardvark-Polymers-Aarlon-2000-Rotational-Molding-Resin-50-RH.php)

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in <sup>3</sup>	ASTM D792
Water Absorption	1.2 %	1.2 %	Immersion 24h; ASTM D570
Moisture Absorption at Equilibrium	2.6 %	2.6 %	ISO 62
Water Absorption at Saturation	8.5 %	8.5 %	ASTM D570
Linear Mold Shrinkage	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	ISO 294-4
Linear Mold Shrinkage, Transverse	0.014 cm/cm @Thickness 2.00 mm	0.014 in/in @Thickness 0.0787 in	ISO 294-4

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	77.0 MPa	11200 psi	ASTM D638
Tensile Strength, Yield	55.0 MPa	7980 psi	ISO 527
	58.0 MPa	8410 psi	ASTM D638
Elongation at Break	>= 300 %	>= 300 %	ASTM D638
Elongation at Yield	25 %	25 %	ASTM D638
	25 %	25 %	ISO 527
Tensile Modulus	1.40 GPa	203 ksi	ISO 527
Flexural Modulus	1.20 GPa	174 ksi	ISO 178
Izod Impact, Unnotched	1.12 J/cm	2.10 ft-lb/in	ASTM D256
	0.270 J/cm @Temperature -40.0 °C	0.506 ft-lb/in @Temperature -40.0 °F	ASTM D256
Izod Impact, Notched (ISO)	12.0 kJ/m <sup>2</sup>	5.71 ft-lb/in <sup>2</sup>	ISO 180/1A

Charpy Impact Notched Mechanical Properties	1.50 J/cm <sup>2</sup> Metric	7.14 ft-lb/in <sup>2</sup> English	ISO 179/1eA Comments
	0.300 J/cm <sup>2</sup>	1.43 ft-lb/in <sup>2</sup>	ISO 179/1E
	@Temperature -30.0 °C	@Temperature -22.0 °F	
	0.450 J/cm <sup>2</sup>	2.14 ft-lb/in <sup>2</sup>	ISO 179/1EA
	@Temperature -30.0 °C	@Temperature -22.0 °F	
Tensile Impact Strength	504 kJ/m <sup>2</sup>	240 ft-lb/in <sup>2</sup>	Long Specimen; ISO 179/1eA
	1470 kJ/m <sup>2</sup>	699 ft-lb/in <sup>2</sup>	ISO 179/1eA

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+13 ohm-cm	1.00e+13 ohm-cm	ASTM D257
Dielectric Constant	4.6	4.6	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	7.0	7.0	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	
	8.0	8.0	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
Dissipation Factor	0.10	0.10	ASTM D150
	@Frequency 1e+6 Hz	@Frequency 1e+6 Hz	
	0.20	0.20	ASTM D150
	@Frequency 100 Hz	@Frequency 100 Hz	
	0.20	0.20	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China