

Aardvark Polymers Aarlon[®] 4055FR PA 6/6 Rotational Molding Resin

Category : Polymer , Thermoplastic , Nylon , Nylon 66 , Nylon 66, Impact Grade

Material Notes:

Aarlon 4055FR is a premium flame retardant type 6/6 nylon. Aarlon 4055FR is halogen, heavy metal, and red phosphorus free. Aarlon 4055FR is UL94 V-0 rated. Aarlon 4055FR is semi-crystalline, nucleated, and heat stabilized. Aarlon 4055FR is available in natural and may be colored and/or printed. Aarlon 4055FR is applicable for industrial markets such as automotive, aerospace, and electronics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Aardvark-Polymers-Aarlon-4055FR-PA-66-Rotational-Molding-Resin.php

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in ³	DAM
Linear Mold Shrinkage, Flow	0.0080 cm/cm	0.0080 in/in	DAM
	@Thickness 1.57 mm	@Thickness 0.0620 in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM
	@Thickness 3.17 mm	@Thickness 0.125 in	
Linear Mold Shrinkage, Transverse	0.0080 cm/cm	0.0080 in/in	DAM
	@Thickness 1.60 mm	@Thickness 0.0630 in	
Linear Mold Shrinkage, Transverse	0.011 cm/cm	0.011 in/in	DAM
	@Thickness 3.20 mm	@Thickness 0.126 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Ultimate	89.2 MPa	12900 psi	DAM
Elongation at Break	14 %	14 %	DAM
Flexural Modulus	3.43 GPa	497 ksi	DAM
Izod Impact, Unnotched	0.430 J/cm	0.806 ft-lb/in	DAM

Thermal Properties	Metric	English	Comments
Melting Point	263 Â°C	505 Â°F	DAM
Deflection Temperature at 0.46 MPa (66 psi)	230 Â°C	446 Â°F	DAM
Deflection Temperature at 1.8 MPa (264 psi)	70.0 Â°C	158 Â°F	DAM
UL RTI, Electrical	130 Â°C	266 Â°F	DAM
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.00 mm	@Thickness 0.118 in	DAM
UL RTI, Mechanical with Impact	75.0 Å°C	167 Å°F	DAM
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	75.0 Å°C	167 Å°F	DAM
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	85.0 Å°C	185 Å°F	DAM
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	85.0 Å°C	185 Å°F	DAM
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	DAM, Test 1
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	DAM, Test 2
	@Thickness 0.800 mm	@Thickness 0.0315 in	
	V-0	V-0	DAM, Test 1
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	DAM, Test 2
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	DAM, Test 1
	@Thickness 3.00 mm	@Thickness 0.118 in	
	V-0	V-0	DAM, Test 2
	@Thickness 3.00 mm	@Thickness 0.118 in	

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