

ERG Aerospace Duocel® Aluminum Metal Foam

Category : Metal , Metal Foam, Mesh, or Honeycomb , Nonferrous Metal , Aluminum Alloy , Other Engineering Material , Composite Core Material

Material Notes:

Order this product through the following link:

http://www.lookpolymers.com/polymer_ERG-Aerospace-Duocel-Aluminum-Metal-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0810 - 0.324 g/cc	0.00293 - 0.0117 lb/in ³	Practical production range 3 - 12% relative density

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	1.24 MPa	180 psi	For 8% nominal density aluminum foam
Modulus of Elasticity	0.0480 - 0.0830 GPa	6.96 - 12.0 ksi	
Compressive Yield Strength	2.17 MPa	315 psi	For 8% nominal density aluminum foam
Compressive Modulus	0.0690 - 0.114 GPa	10.0 - 16.5 ksi	
Shear Modulus	0.121 - 0.345 GPa	17.5 - 50.0 ksi	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	0.895 J/g-°C	0.214 BTU/lb-°F	
Thermal Conductivity	9.70 W/m-K	67.3 BTU-in/hr-ft ² -°F	
Melting Point	660 °C	1220 °F	

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