

CMT Materials METAPOR® HD 100 AL Air Permeable Material

Category : Polymer , Thermoset , Epoxy , Epoxy, Cast, Metal Filled

Material Notes:

METAPOR® is a composite material made of aluminum granules and epoxy resin. The material is air-permeable over the entire surface due to its micro-porous structure allowing for unique design considerations for prototype and production thermoform tools. In contrast to sintered materials, the pores do not close off after machining allowing excellent definition and surface quality. METAPOR®-HD 100 AL is the high density grade of the material that is recommended for use in applications where the surface characteristics of the finished part are critical. HD 100 AL is specially formulated to have a smooth surface yielding better transparency on clear or translucent parts. The material is also recommended for use with acrylics and in twin-sheet applications. Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-METAPOR-HD-100-AL-Air-Permeable-Material.php

Physical Properties	Metric	English	Comments
Density	1.898 g/cc	0.06858 lb/in ³	
Porosity	16 %	16 %	Total porosity (by volume)
Pore Size	12.7 microns	0.500 mil	Mean pore diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	
Flexural Strength	43.62 MPa	6327 psi	
Flexural Modulus	9.205 GPa	1335 ksi	
Impact	11	11	Unspecified Impact Strength Test (kJ/m ²)

Thermal Properties	Metric	English	Comments
CTE, linear	35.6 µm/m-°C	19.8 µin/in-°F	
	@Temperature 25.0 - 125 °C	@Temperature 77.0 - 257 °F	
Thermal Conductivity	20.5 W/m-K	142 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	108 °C	226 °F	Martens Dimensional Stability

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