

CMT Materials METAPOR® HD 210 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 210 AL is the high temperature grade of the product. It can be used with polymer sheet most commonly thermoformed today such as PS, ABS, PVC, PET and PE, but is also suitable polymers processing at higher temperatures such as polycarbonate and acrylic. Its upper operating temperature limit is 410°F (210°C). Information Provided by CMT Materials, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_CMT-Materials-METAPOR-HD-210-AL-Air-Permeable-Material.php

Physical Properties	Metric	English	Comments
Density	1.900 g/cc	0.06863 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	82	82	
Flexural Strength	43.02 MPa	6239 psi	
Flexural Modulus	10.80 GPa	1567 ksi	
Impact	11	11	Unspecified Impact Strength Test (kJ/m ²)

Thermal Properties	Metric	English	Comments
CTE, linear	31.7 µm/m-°C	17.6 µin/in-°F	
	@Temperature 25.0 - 125 °C	@Temperature 77.0 - 257 °F	
Thermal Conductivity	19.0 W/m-K	132 BTU-in/hr-ft ² -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	210 °C	410 °F	Martens Dimensional Stability

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