

## CMT Materials METAPOR® BF 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®-BF 100 AL is the standard grade and can be used with polymer sheet most commonly thermoformed today such as PS, ABS, PVC, PET and PE. Its upper operating temperature limit is 212°F (100°C). Information Provided by CMT Materials, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_CMT-Materials-METAPOR-BF-100-AL-Air-Permeable-Material.php](http://www.lookpolymers.com/polymer_CMT-Materials-METAPOR-BF-100-AL-Air-Permeable-Material.php)

Physical Properties	Metric	English	Comments
Density	1.799 g/cc	0.06499 lb/in <sup>3</sup>	
Porosity	15 %	15 %	Total porosity (by volume)
Pore Size	15.2 microns	0.600 mil	Mean pore diameter

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	81	81	
Flexural Strength	56.03 MPa	8126 psi	
Flexural Modulus	9.005 GPa	1306 ksi	
Impact	14	14	Unspecified Impact Strength Test (kJ/m <sup>2</sup> )

Thermal Properties	Metric	English	Comments
CTE, linear	30.1 µm/m-°C	16.7 µin/in-°F	
	@Temperature 25.0 - 125 °C	@Temperature 77.0 - 257 °F	
Thermal Conductivity	19.1 W/m-K	133 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 100 °C	@Temperature 212 °F	
Maximum Service Temperature, Air	108 °C	226 °F	Martens Dimensional Stability

## Contact Songhan Plastic Technology Co.,Ltd.

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