

ENDOTHERMIC SERIES

DATASHEET



PRODUCT OVERVIEW

- This material is specifically designed for absorbing heat energy from the surrounding heatsinks and components. Due to being higher in energy than its reactants, the change in enthalpy is positive; heat is therefore absorbed from the surroundings by the reaction.

FEATURES

- High Endothermic Value
- Large Specific Heat Capacity
- Low Density.
- Offers Environmental Protection

APPLICATIONS

- Used frequently within battery cores to offer heat storage
- LED, Automotive Electronics, Power and Household Appliance Industries

PROPERTIES	TEST METHOD	UNIT	ENDOTHERMIC-2
Colour	Visual	-	Black
Thickness ($\pm 10\%$)	ASTM-D374	mm inch	0.30 – 1.00 0.01 – 0.04
Thermal Conductivity	ASTM-D5470	W/m.K	0.6
Endothermic Enthalpy ($\pm 10\%$)	-	J/g	≥ 150
Specific Heat Capacity	-	J(g°C)	2.1
Specific Gravity (± 0.2)	ASTM-D792	g/cm ³	1.2
Working Temperature	EM344	°C	-40 to 120
Volume Thermal Resistance	ASTM-D257	Ω -cm	108
Tensile Strength	ASTM-D412-1998A	MPa	0.32
Hardness (± 5)	ASTM-D2240	Shore C	50
Flammability Rating	UL-94	-	HB

NOTES

- Customised shapes are available
- The above performance data is tested in an environment of 70% humidity, temperature 25 °C
- This data is intended for reference purposes only. It is recommended that the material is tested to fully evaluate its performance ensuring it is fit for purpose.

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