

3M Interam™ E-5A-4 Endothermic Mat

Category : Other Engineering Material

Material Notes:

When properly installed, 3M Interam Endothermic Mat E-5A-4 provides a uniform covering that, when exposed to high temperatures, releases chemically-bound water to cool the outer surfaces of the wrap material and significantly retard heat transfer. Helps protect structural steel components for up to four hours, critical electrical components for up to three hours and wall opening membranes for up to two hours. Applied to the back and sides of metallic utility boxes, this product helps achieve and equal F-rating and T-rating in membrane penetrations of rated wall assemblies. 3M Interam Endothermic Mat E-5A-4 is non-flame supporting with low-smoke evolution. The mat is flexible which aids in installation and allows it to more easily be applied on complex shapes and around corners. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Interam-E-5A-4-Endothermic-Mat.php

Physical Properties	Metric	English	Comments
Bulk Density	0.865 g/cc	0.0313 lb/in ³	
Loss On Ignition	28 %	28 %	
Thickness	10400 microns	408 mil	

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	0.758 MPa	110 psi	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.16 J/g-°C	0.277 BTU/lb-°F	
	@Pressure 91.2 MPa, Temperature 24.0 °C	@Pressure 13200 psi, Temperature 75.2 °F	
	1.39 J/g-°C	0.332 BTU/lb-°F	
	@Pressure 20.3 MPa, Temperature 24.0 °C	@Pressure 2940 psi, Temperature 75.2 °F	
Thermal Conductivity	0.100 W/m-K	0.694 BTU-in/hr-ft ² -°F	
	@Temperature 316 °C	@Temperature 601 °F	
	0.118 W/m-K	0.819 BTU-in/hr-ft ² -°F	
	@Temperature 399 °C	@Temperature 750 °F	
	0.140 W/m-K	0.972 BTU-in/hr-ft ² -°F	
	@Temperature 482 °C	@Temperature 900 °F	
	0.151 W/m-K	1.05 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	Comments
	@ Temperature 93.0 °C	@ Temperature 199 °F	
	0.179 W/m-K	1.24 BTU-in/hr-ft²-°F	
	@Temperature 177 °C	@Temperature 351 °F	

Descriptive Properties	Value	Comments
Appearance	Silver exterior, white interior	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com
Email : sales@lookpolymers.com
Tel : +86 021-51131842
Mobile : +86 13061808058
Skype : lookpolymers
Address : United North Road 215,Fengxian District, Shanghai City,China