

3M CS-195+ Composite Sheet

Category : Other Engineering Material

Material Notes:

3M Fire Barrier CS-195+ Composite Sheet is one-part composite system comprised for four components. The heart of the system is an organic/inorganic, fire-resistive elastomeric sheet. It is bonded on one side to a layer of 28 gauge galvanized steel. The other side is reinforced with hexagonal shaped steel-wire mesh and covered with aluminum foil. This material is designed to seal larger penetrations through fire-rated walls and floors. It is also used for shielding cable trays and conduit, HVAC ductwork and vital process equipment from radiant heat, flame spread and smoke. It functions as an effective intermittent fire-break within horizontal and vertical cable tray runs, and is excellent for both new and retrofit construction. The nominal 7.62 mm thick composite sheet provides up to a 4-hour fire rating. IT is lightweight and can be easily installed with common trade tools. When exposed to temperatures in excess of 121°C, the fire-resistive sheet begins to volumetrically expand and swells 8-10 times its original size, forming a high strength, hard char that retards heat transmission. This expansion process is called "intumescence." Under normal operating conditions this material is a good thermal conductor which allows unwanted heat build-up to escape from process and control equipment and also minimizes power cable derating. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-CS-195-Composite-Sheet.php

Mechanical Properties	Metric	English	Comments
Hardness, Shore A	45 - 65	45 - 65	Non-flame supporting hardness
Tensile Strength at Break	0.645 MPa	93.5 psi	ASTM D412, Method A
Elongation at Break	489 %	489 %	ASTM D412, Method A
Compression Set	<= 25 %	<= 25 %	

Electrical Properties	Metric	English	Comments
Dielectric Strength	4.69 kV/mm	119 kV/in	ASTM D149

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