

3M Scotch® 77 Black Fire-Retardant Electric Arc Proofing Tape

Category : Polymer , Adhesive

Material Notes:

Scotch® Fire-Retardant Electric Arc Proofing Tape 77 Series are designed to protect most types of electrical cables from fault arc-generated heat and flames of nearby cable failures. These elastomeric tapes are formulated to generate a thick, insulating charred buildup when exposed to high temperatures. The insulating charred buildup protects wrapped cables and cable accessories from the fault arc-generated heat and flames of cable failures within approximately 20 inches until limiting devices can interrupt the faulted circuit. Because Scotch® Fire-Retardant Electric Arc Proofing Tape 77 Series are elastomeric and unsupported, they are very conformable. Installers can provide virtually wrinkle-free coverage of cables and irregularly-shaped cable accessories, easily and rapidly. This exceptional conformability provides better product control while wrapping and yields more uniform coverage. Also the tape's thin cross section reduces the overall weight compared to other methods while providing arc protection. The white gray color of Scotch Tape 77 White allows for easy identification of burned areas. One half-lap wrap provides adequate protection for most installations. However, additional wraps can be applied, if conditions warrant, without requiring a reduction in conductor loads. Information provided by 3M

Order this product through the following link:

http://www.lookpolymers.com/polymer_3M-Scotch-77-Black-Fire-Retardant-Electric-Arc-Proofing-Tape.php

Physical Properties	Metric	English	Comments
Thickness	762 microns	30.0 mil	

Mechanical Properties	Metric	English	Comments
Elongation at Break	90 %	90 %	ASTM D1000
	@Temperature -18.0 °C	@Temperature -0.400 °F	
	130 %	130 %	ASTM D1000
	@Temperature -12.0 °C	@Temperature 10.4 °F	
	150 %	150 %	ASTM D1000
	@Temperature 23.0 °C	@Temperature 73.4 °F	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.250 W/m-K	1.74 BTU-in/hr-ft ² -°F	
Flammability, UL94	V-0	V-0	Self-extinguishing
Oxygen Index	26 - 28 %	26 - 28 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Breakdown	>= 10000 V	>= 10000 V	

Descriptive Properties	Value	Comments
Appearance	Black	

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