

3M™ 525W

Insulation and Water Resistant Self-curing Protection Pad

Data Sheet

Product Description

525W insulation and water resistant* self-curing protection pad has been specifically developed as an easily applied and ambient temperature curable pad for protection of 10kV bare overhead line.

525W provides vacuum package, which could be easily and quickly applied manually without tools after opening package.

525W before curing combines suitable initial strength, excellent self-fusion and outstanding property to follow irregular surface.

525W after curing delivers good insulation, water resistance*, outstanding flexibility, excellent UV resistance and other multiple performances for protection.

Product Features

- Ambient temperature curing
- Convenient to use
- Good insulation
- Excellent UV resistance
- Outstanding flexibility
- Good heating resistance
- Good flame retardant performance

General Application Steps

1. Remove oil, grease and loosely adhering deposits
2. Recommend to remove metal burr by abrasion
3. Apply 525W
4. Overlap between two pieces of 525W
5. Repair any defects
6. Allow to cure

Properties

Property	Typical Value
Color	Black
Shelf life	10 months
Curing Time (20°C, 50% humidity)	
Operation time after opening	30 min
Breakdown voltage of pad reaches 18kV	3 hours
Full curing	7 days
After Curing	
Hardness	50 Shore A
Breakdown voltage (1.8mm pad)	29.6 kV *
Dielectric dissipation factor	0.26% *
Dielectric constant	3.29 *
Volume resistivity	$7.3 \times 10^{14} \Omega \cdot \text{cm}$ *
QUV accelerated aging	Unaffected after 2,000 hours other than little color change
Flame retardant	V1
Thermal shock (-40°C~85°C)	unaffected after 200 cycles
Elongation	350%
Water resistant	Bare overhead line protected by 525W has no breakdown in 12kV 4 hours water immersion voltage test*.

* Data from 3rd party test report, for more details please contact 3M China Limited.



Package and Storage

Type L supplied in boxes containing 10 separate vacuum bags. Pad dimension approximately in each vacuum bag 10 pieces ×1meter(length) ×80mm(width) ×1.8mm (thickness)

Use within 10 months of manufacture. Store in original sealed packages at temperature between 5°C and 30°C and keep in dry and dark condition.

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