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TECHNICAL DATA SHEET

SOLARITE KM-2522 STRAND SEAL SEMI-CONDUCTING

USE: For the sealing of strands in power cables to prevent water penetration.

DESCRIPTION: SOLARITE KM-2522 is a non-hardening mastic, composed of a high-molecular weight polyester, conductive carbon black and inert mineral fillers and fibers. Does not contain asbestos, oil hydrocarbons, or low molecular weight plasticizers.

All ingredients are virgin materials.

PHYSICAL PROPERTIES:

Color.....Black
Solids.....100%
Specific Gravity.....1.5 to 1.7
Resistivity Ohms/Unit Sq.....<1000 Ohms
Penetration (.1mm).....150 to 160
(Cone, 300 Grams Load @ 77°F ASTM-D-217-48)
Melt Index @ 150°C.....165 to 175 Grams/10 Minutes
(Min. 2160 Gm Load, Preheat 10 Min., Run 30 Sec.)
Thermal Volumetric Expansion*10% Max.
Through 440°F

SPECIAL PROPERTIES:

- 1) No adverse effects on electrical or physical properties of high and low density polyethylene, synthetic elastomers, cross-linked polymers, PVC, rubbers.
- 2) Non-injurious to semi-conducting shields.
- 3) Remains stable at 300°F and higher temperatures for short periods.
- 4) Non-hydroscopic, excellent resistance to water, water vapor and salt water.

- 5) Non-drying, remains plastic with no shrinkage upon aging.
- 6) Non-corrosive to metals.
- 7) Resistant to oil.
- 8) Non-brittle @ -40°F.
- 9) Will not melt or flow at the higher temperatures.
- 10) Good adhesion to most clean, dry surfaces.
- 11) Little to no odor, non-toxic, and non-irritating to the skin.

APPLICATION: Pumped with heavy duty, double action hydraulic drum ram equipment. Cone shaped, heated follower plate and heated delivery lines recommended. Recommended processing temperatures--275°F to 300°F.

PACKAGING: 55-gallon drums, 5-gallon pails.

***THERMAL EXPANSION PROCEDURE:** Weigh 5 to 6 grams of material, form into a noodle, and place in cylinder of melt apparatus at room temperature. Load piston with a 2060 gram dead weight and depress until (a) extrudate passes thru the die and (b) the bottom engraved line is flush with the top of the guide collar. Plug die, turn melt index apparatus to maximum output and start stopwatch. Measure temperature and piston rise (in 64ths of an inch) to 440°F. Using the calculations shown below, the increase in volume at 440°F shall not exceed 10 percent:

- 1) Area of cylinder base = 0.1110 square inches.
- 2) Height of cylinder occupied by sample @ RT = 1.903 inches

Original volume of specimen = 1.9063 inches x 0.1110 sq. inches or 0.2116 cubic inches.

IMPORTANT:

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HEALTH CAUTION:

Please refer to Material Safety Data Sheet before using these products.

PLEASE REFER TO MATERIAL SAFETY DATA SHEET FOR FURTHER FIRST AID INFORMATION.

FOR CHEMICAL EMERGENCY
CALL CHEMTREC (DAY OR NIGHT) 800-424-9300.