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# TECHNICAL DATA SHEET

## SOLARITE KM-2730 STRAND SEAL SEMI-CONDUCTING

**END USE:** A semi hardening sealant for high voltage power cable strands to prohibit the entrance of water and gas.

**DESCRIPTION:** SOLARITE KM-2730 is composed of a high-molecular weight plasticizer, synthetic polymers and conductive fillers . All ingredients are virgin materials; no inert fillers.

### PHYSICAL PROPERTIES:

Color.....Black  
Solids.....100%  
Specific Gravity..... .98 +/- .05  
Resistivity ohms/Unit Sq.....<1000 ohms  
Penetration (.1mm)  
(Cone, 300 grams ld. @ 77°F  
ASTM-D-217-48).....50 to 65  
Melt Index @ 150°C  
(Min. 2160 Gm Load, Preheat 10 Mins.,  
Run 30 Sec.).....40 to 70 Gms/10 Min.  
Thermal Volumetric Expansion\*  
Through 440°F.....10% Max.

### SPECIAL PROPERTIES:

- 1) Semi-hardening, remains plastic with no shrinkage upon aging.
- 2) Non-injurious to crosslinked polyethylene and EPDM Semi-Conducting shields.
- 3) No adverse effects on electrical or physical properties of high molecular weight, high and low density polyethylene, synthetic elastomers, crosslinked polymers, P.V.C. and rubbers.

- 4) Remains stable at 300°F and higher temperatures for short periods.
- 5) Non-bleeding.
- 6) Non-hygroscopic, excellent resistance to water, water vapor, and salt water.
- 7) Non-corrosive to metals.
- 8) Flexible at -40°F.
- 9) Little to no odor, presents no toxicological or dermatological problems.
- 10) Will not liquefy or flow at the higher temperatures.
- 11) Compliance with ANSI 119.4 Connectability Standard.

**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 = 1.9063 inches.
- 3) Original volume of specimen = 1.9063 inches x 0.1110 square 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.**

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