



HILEC Inc.  
 11 Railroad Avenue  
 Arcade, New York 14009  
 Phone: (716) 492-2212  
 Fax: (800) 450-8193

**TURBO™ 117F**

**FLAME RETARDANT SILICONE RUBBER EXTRUDED FIBERGLASS SLEEVING**

**THERMAL CLASS: 200°C**  
**NEMA TS-1, TYPE 5**

**MIL-I-3190/6, MIL-P-18057 (grade A)**  
**UL FILE E123956 & E86619 (grade A)**

**DESCRIPTION**

**TURBO™ 117F** is comprised of specially formulated high temperature silicone rubber extruded onto premium electrical grade braided fiberglass sleeving. The extrusion process results in a higher density coating that is more homogeneous, has better concentricity and yields longer continuous lengths than the typical liquid dipped products common to the industry.

**RECOMMENDED USE**

**TURBO™ 117F** is used for insulation of leads and connections in electrical and electronic components (transformers, coils, relays, solenoids etc.) where temperature extremes from -70°C through 200°C are encountered. *Silicone rubber coated glass sleeving is the only flexible insulating material which remains useful for continuous service in ambient temperatures from -70°C through +200°C.*

**PROPERTIES**

- **THERMAL:** **TURBO™ 117F** is rated Class H by IEEE standards, acceptable for continuous service from -70°C through 200°C. Operation at temperatures up to 315°C is tolerated for short durations. **TURBO™ 117F** exceeds all requirements of UL Subject 224 for 200°C, 600-volt operation. It also exceeds the requirements of UL VW-1, MIL-I-3190, MIL-P-18057, and ASTM D372.
- **ENVIRONMENTAL:** **TURBO™ 117F** is resistant to moisture, corona, ozone, radiation, compression set, fungus, most chemicals and solvents, weathering, flexure fatigue and heat degradation.
- **FLAMMABILITY:** **TURBO™ 117F** is UL recognized as VW-1, self-extinguishing. The coating maintains its electrical integrity - *even under severe fire conditions* - by forming a non-conductive ash.

DIELECTRIC GRADE	MIN. AVE. BREAKDOWN	MIN. INDIV.
A	7000	6000
B	4000	2500
C-1	2500	1500

**AVAILABILITY**

- **SIZES:** **TURBO™ 117F** is available in continuous spooled lengths or cut lengths in NEMA sizes #24 through ¾
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- **COLORS:** **TURBO™ 117F** is available in white, black and iron oxide red. Other colors may be available subject to minimum order quantities and/or setup charges.