

Electrical Insulation System Component

E210549

**EFI POLYMERS**

4600 HOLLY ST DENVER CO 80216

**System Component****11T206-/7H021-, 11T206-/7H013-****System  
Designation  
Octagon H3****System Temp  
(Class)  
180(H)**

report date: 2011-10-05

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**Authorization Letter Required for Adoption of this System**

## Construction Details (Table I)

The use of this insulation system is limited to the combination of materials specified below. Where more than one item is designated under Insulation Function, they may be used together, unless otherwise indicated, or they may be used as alternates to one another. Functions designated "optional" are not necessarily required for every design. Insulation thicknesses and/or layers indicated below are minimum.

**Winding Wire**

- Recognized Component - Magnet wire (OBMW2), single build or greater, round or rectangular, copper or aluminum unless stated otherwise for the types listed below
- Recognized Component - Single and Multi-Layer Insulated Winding Wire (OBJT2) listed below
- Recognized Component - Appliance Wiring Material (AVLV2) listed below
- Bare conductors wrapped or interleaved with a paper or film listed below need not be a Recognized Component

(unless otherwise noted, winding wire types listed below may be used in combination within a single product)

ANSI Type	Temp (°C)	Basecoat	Topcoat
<b>MW 35</b>	or 200	polyester	polyamideimide
<b>MW 36</b>	or 200	Polyester-amide-imide	Polyamide-imide
<b>MW 37</b>	or 220	Polyester	Polyamide-imide
<b>MW 38</b>	or 220	Polyester	Polyamide-imide
<b>MW 73</b>	or 200	Polyester-amide-imide	Polyamide-imide
<b>MW 74</b>	or 200	Polyester-amide-imide	Polyamide-imide

click on an ANSI type to view a list of Recognized magnet wires

**Ground & Interwinding Insulations**

Designation (no.)	mils(mm)	comments
<b>3M (Minnesota Mining &amp; Mfg Co)</b>		
92	3 (layers)	Recognized Component - Insulating Tape (OANZ2)
<b>3M Innovative Paper Technologies</b>		
TufQuin 110, 120, PC	7 (0.18)	
<b>E. I. Dupont de Nemours &amp; Co.</b>		
Nomex® 410	5 (0.13)	aramid insulating paper
Nomex® 411	11.5 (0.29)	aramid insulating paper
Nomex® 414	5 (0.13)	aramid insulating paper
Nomex® 416		aramid insulating paper
Nomex® 418	5 (0.13)	aramid insulating paper
Nomex® 992	10 (0.25)	aramid insulating paper
Nomex® 993	8.25 (0.21)	aramid insulating paper
Nomex® 994, 994 NPT	8.25 (0.21)	aramid insulating paper
Nomex® E56	7.5 (0.19)	aramid insulating paper
Rynite 530	15 (0.38)	polyethylene terephthalate (PET)
Rynite 530L	15 (0.38)	polyethylene terephthalate (PET)
Rynite 935	15 (0.38)	polyethylene terephthalate (PET)
Rynite FR515	15 (0.38)	polyethylene terephthalate (PET)
Rynite FR530	15 (0.38)	polyethylene terephthalate (PET)
Rynite FR530L	15 (0.38)	polyethylene terephthalate (PET)
Rynite FR945	15 (0.38)	polyethylene terephthalate (PET)

**Lead Wires (optional)**

200 Extruded TFE  
200 PTFE - polytetrafluoroethylene

**Tapes - Listed or Recognized Component**

tapes are optional for this system

Designation	comments
3M COMPANY [E17385] <b>27 (a)</b>	

**Sleeving (optional)**

Designation (no.)	comments
<b>Atkins &amp; Pearce Inc.</b>	

Ben-Har 1151-XL-200

**Furukawa**

PIT-S

**Shin-Etsu Chemical Co.**

ST-DG

**Potting Compounds** (optional)

Designation (no.)	comments
<b>EFI Polymers</b>	
11T206-/7H013-	- 5or 6 digit alphanumeric suffix indicating type and amount of filler and pigment
11T206-/7H021-	may be followed by 5 or 6 digit alphanumeric suffix indicating type and amount of filler and pigment
<b>Shin-Etsu Chemical Co.</b>	
KE-1831	

**Miscellaneous Minor Insulations** (optional)

Designation (no.)	comments
<b>Semitec Co.</b>	
10-G113-xxx	