

# Haysite Plastics HTF

Thermoset Polyester  
Haysite Reinforced Plastics

Message:

HTF exhibits excellent flexibility and retention of electrical properties at elevated temperatures. For use in 220° C insulation systems in dry type transformers and elsewhere where flexibility and high temperature is required. Standard color is tan. Thickness is 1/32" - 1/16". Sheet sizes are 36" x 72" and 48" x 96".

| General Information                                    |                      |                   |             |
|--|----------------------|-------------------|-------------|
| Features   | Good Flexibility     |                   |             |
|  | High Heat Resistance |                   |             |
| Uses   | Insulation           |                   |             |
| Agency Ratings   | EC 1907/2006 (REACH) |                   |             |
| RoHS Compliance  | RoHS Compliant       |                   |             |
| UL File Number   | E83907               |                   |             |
| Appearance   | Tan                  |                   |             |
| Forms  | Sheet                |                   |             |
| Physical   | Nominal Value        | Unit              | Test Method |
| Specific Gravity                                       | 1.60                 | g/cm <sup>3</sup> | ASTM D792   |
| Water Absorption (Equilibrium)                         | 1.1                  | %                 | ASTM D229   |
| Mechanical   | Nominal Value        | Unit              | Test Method |
| Tensile Strength                                       |                      |                   | ASTM D638   |
| -- <sup>1</sup>  | 46.2                 | MPa               |             |
| -- <sup>2</sup>  | 42.7                 | MPa               |             |
| Compressive Strength                                   | 74.5                 | MPa               | ASTM D695   |
| Impact   | Nominal Value        | Unit              | Test Method |
| Notched Izod Impact                                    |                      |                   | ASTM D256   |
| -- <sup>3</sup>  | 480                  | J/m               |             |
| -- <sup>4</sup>  | 530                  | J/m               |             |
| Thermal  | Nominal Value        | Unit              |             |
| Temperature Index                                      |                      |                   |             |
| Elec.  | 200                  | °C                |             |
| Mech.  | 200                  | °C                |             |
| Dielectric Strength - Step-By-Step In Oil <sup>5</sup> | 55000                | V                 | ASTM D229   |
| Electrical   | Nominal Value        | Unit              | Test Method |
| Dielectric Strength                                    |                      |                   | ASTM D149   |
| Air  | 22                   | kV/mm             |             |
| Oil  | 24                   | kV/mm             |             |
| Dielectric Constant (60 Hz)                            | 5.20                 |                   | ASTM D150   |
| Dissipation Factor (60 Hz)                             | 0.057                |                   | ASTM D150   |

|                |               |      |             |
|----------------|---------------|------|-------------|
| Arc Resistance | 135           | sec  | ASTM D495   |
| Flammability   | Nominal Value | Unit | Test Method |
| Flame Rating   | HB            |      | UL 94       |
| NOTE           |               |      |             |
| 1.             | Crosswise     |      |             |
| 2.             | Lengthwise    |      |             |
| 3.             | Crosswise     |      |             |
| 4.             | Lengthwise    |      |             |
| 5.             | Parallel      |      |             |

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