

Haysite EMD Polyester, Glass Reinforced

Category : Polymer , Thermoset , Polyester, TS , Thermoset Polyester Glass SMC

Material Notes:

EMD is a glass mat reinforced polyester sheet designed primarily as a "slot wedge" material in large motors and generators. EMD has low weight loss at elevated temperatures and high flexural and shear strength; properties required in demanding "slot wedge" applications.

Available thicknesses - .062" - 1.00". Standard color - Black. Information provided by Haysite

Order this product through the following link:

http://www.lookpolymers.com/polymer_Haysite-EMD-Polyester-Glass-Reinforced.php

| Physical Properties | Metric | English | Comments |
|---------------------|-----------|-----------|-----------|
| Specific Gravity | 1.94 g/cc | 1.94 g/cc | ASTM D792 |
| Water Absorption | 0.19 % | 0.19 % | ASTM D229 |

| Mechanical Properties | Metric | English | Comments |
|-----------------------|-----------|---------------|---------------------|
| Hardness, Barcol | 67 | 67 | |
| Tensile Strength | 114 MPa | 16500 psi | ASTM D638 |
| Flexural Strength | 228 MPa | 33000 psi | ASTM D790 |
| Flexural Modulus | 12.4 GPa | 1800 ksi | ASTM D790 |
| Compressive Strength | 359 MPa | 52000 psi | ASTM D695 |
| Shear Strength | 123 MPa | 17900 psi | ASTM D732 |
| Izod Impact, Notched | 5.87 J/cm | 11.0 ft-lb/in | Edgewise; ASTM D256 |

| Thermal Properties | Metric | English | Comments |
|------------------------------------|---------|---------|----------|
| Maximum Service Temperature, Inert | 180 Â°C | 356 Â°F | |
| Flammability, UL94 | HB | HB | |

| Electrical Properties | Metric | English | Comments |
|-----------------------|--------------------|----------------------|---|
| Dielectric Constant | 4.8 | 4.8 | ASTM D150 |
| | @Frequency 60.0 Hz | @Frequency 60.0 Hz | |
| Dielectric Strength | 16.7 kV/mm | 425 kV/in | Perpendicular, Short Time in Oil; ASTM D149 |
| | @Thickness 1.59 mm | @Thickness 0.0625 in | |
| Dielectric Breakdown | 60000 V | 60000 V | Parallel, Step-By-Step in Oil; ASTM D149 |

| Electrical Properties | 0.020 Metric | 0.020 English | Comments |
|-----------------------|--------------------|--------------------|-----------|
| | @Frequency 60.0 Hz | @Frequency 60.0 Hz | |
| Arc Resistance | 150 sec | 150 sec | ASTM D495 |

| Descriptive Properties | Value | Comments |
|------------------------|-------------|--------------------------|
| Flame Resistance | 287 seconds | Burning Time, ASTM D229 |
| | 75 seconds | Ignition Time, ASTM D229 |

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