

## Evonik Corporation Solimide® HT-340 Polyimide Foam

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

### Material Notes:

Description: SOLIMIDE® foam marine insulation systems are used as thermal and acoustical insulation on military vessels around the world. In addition, SOLIMIDE® HT-340 polyimide foam is certified as a Fire-Restricting Material in accordance with the International Maritime Organization (IMO) High Speed Craft code. The inherent fire resistance of SOLIMIDE® foam can provide a significant reduction in fire load and combustion products for acoustical and thermal insulation. Whether the marine application is military or commercial, literally tons of topside weight can be saved when SOLIMIDE® foams replace heavier fibrous insulation in such applications as hullboard, duct wrap and acoustic ceiling panels. Over 15 navies and many commercial operators around the world use SOLIMIDE® foam marine insulation systems on their vessels. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Solimide-HT-340-Polyimide-Foam.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Solimide-HT-340-Polyimide-Foam.php)

| Physical Properties | Metric       | English                     | Comments    |
|---------------------|--------------|-----------------------------|-------------|
| Density             | 0.00641 g/cc | 0.000231 lb/in <sup>3</sup> | ASTM D3574A |

| Mechanical Properties     | Metric     | English  | Comments    |
|---------------------------|------------|----------|-------------|
| Tensile Strength at Break | 0.0480 MPa | 6.96 psi | ASTM D3574E |

| Thermal Properties               | Metric                     | English                             | Comments  |
|----------------------------------|----------------------------|-------------------------------------|---|
| Thermal Conductivity             | 0.0460 W/m-K               | 0.319 BTU-in/hr-ft <sup>2</sup> -°F | ASTM C518   |
| Maximum Service Temperature, Air | 300 °C                     | 572 °F                              | Continuous Use  |
| Flammability Test                | 1.0                        | 1.0                                 | Specific Optical Density of Smoke, Non-Flaming; ASTM E662 |
|                                  | 3.0                        | 3.0                                 | Specific Optical Density of Smoke, Flaming; ASTM E662     |
|                                  | 10<br>@Thickness 22.0 mm   | 10<br>@Thickness 0.866 in           | Smoke Developed Index (SDI); ASTM E84-95                  |
| Flame Spread Index               | 1.0                        | 1.0                                 | Radiant Panel; ASTM E162                                  |
|                                  | 0.00<br>@Thickness 22.0 mm | 0.00<br>@Thickness 0.866 in         | Surface Burning; ASTM E84-95                              |

| Descriptive Properties                     | Value                      | Comments                                   |
|--|----------------------------|--|
| Acoustical Absorption Coefficient (1000Hz) | 0.93 sabins/m <sup>2</sup> | 25 mm, ASTM C423 and E795, Type A Mounting |
|  | 1.06 sabins/m <sup>2</sup> | 50 mm, ASTM C423 and E795, Type A Mounting |

| Acoustical Absorption Coefficient (125 Hz)<br>Descriptive Properties | 0.08 sabins/m <sup>2</sup><br>Value | 25 mm, ASTM C423 and E795, Type A Mounting<br>Comments |
|--|-------------------------------------|--|
|  | 0.34 sabins/m <sup>2</sup>          | 50 mm, ASTM C423 and E795, Type A Mounting             |
| Acoustical Absorption Coefficient (2000 Hz)                          | 0.85 sabins/m <sup>2</sup>          | 50 mm, ASTM C423 and E795, Type A Mounting             |
|  | 0.94 sabins/m <sup>2</sup>          | 25 mm, ASTM C423 and E795, Type A Mounting             |
| Acoustical Absorption Coefficient (250 Hz)                           | 0.22 sabins/m <sup>2</sup>          | 25 mm, ASTM C423 and E795, Type A Mounting             |
|  | 0.52 sabins/m <sup>2</sup>          | 50 mm, ASTM C423 and E795, Type A Mounting             |
| Acoustical Absorption Coefficient (4000 Hz)                          | 0.81 sabins/m <sup>2</sup>          | 25 mm, ASTM C423 and E795, Type A Mounting             |
|  | 0.94 sabins/m <sup>2</sup>          | 50 mm, ASTM C423 and E795, Type A Mounting             |
| Acoustical Absorption Coefficient (500 Hz)                           | 0.58 sabins/m <sup>2</sup>          | 25 mm, ASTM C423 and E795, Type A Mounting             |
|  | 0.86 sabins/m <sup>2</sup>          | 50 mm, ASTM C423 and E795, Type A Mounting             |
| Noise Reduction Coefficient  | 0.65                                | 25 mm, ASTM C423 and E795, Type A Mounting             |
|  | 0.8                                 | 50 mm, ASTM C423 and E795, Type A Mounting             |

## Contact Songhan Plastic Technology Co.,Ltd.

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