

## Evonik Corporation Solimide® TA-301-DODI Polyimide Foam

Category : Polymer , Thermoplastic , Polyimide, Thermoplastic

### Material Notes:

Description: SOLIMIDE® foams offer a unique combination of properties suited for demanding industrial environments. Because the foams retain their flexibility at cryogenic temperatures, they are utilized as expansion joints for cryogenic tanks, pipelines and wind tunnels. Very low outgassing makes SOLIMIDE® foams the choice for use in sensitive electronic, medical and analytical instruments. These products can be used at temperatures that would degrade other foams, allowing for use as insulation in ovens and other high temperature processes.

SOLIMIDE® foams are used in a variety of applications from transportation to plant maintenance. They are environmentally "green," chemical and fire resistant, lightweight, durable, easy to install, and can be customized for any industrial situation. Meets U.S. Mil Spec DOD-I-24688. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Solimide-TA-301-DODI-Polyimide-Foam.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Solimide-TA-301-DODI-Polyimide-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.00705 g/cc	0.000255 lb/in <sup>3</sup>	ASTM D3574A

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	>= 0.0600 MPa	>= 8.70 psi	ASTM D3574E
Compressive Strength	0.00900 MPa	1.31 psi	50% Compression Force Deflection; ASTM D3574B

Thermal Properties	Metric	English	Comments
Thermal Conductivity	<= 0.0420 W/m-K	<= 0.291 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C518
Flammability Test	3.0	3.0	Specific Optical Density of Smoke, Non-Flaming; ASTM E662
	5.0	5.0	Specific Optical Density of Smoke, Flaming; ASTM E662
Flame Spread Index	>= 5.0	>= 5.0	Radiant Panel; ASTM E162

Descriptive Properties	Value	Comments
Acoustical Absorption Coefficient (1000Hz)	0.98 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
	1.02 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (125 Hz)	0.11 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
	0.32 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (2000 Hz)	0.87 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting

Descriptive Properties	Value	Comments
Acoustical Absorption Coefficient (250 Hz)	0.21 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
	0.53 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
	0.90 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (500 Hz)	0.56 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
Noise Reduction Coefficient	0.7	25 mm, ASTM C423 and E795, Type A Mounting
	0.85	50 mm, ASTM C423 and E795, Type A Mounting
Toxic Gas Generation	<ul style="list-style-type: none"><li>• 180 ppm CO</li><li>• Max 1 ppm HCN</li><li>• Max 1 ppm HF</li><li>• Max 10 ppm HCl</li><li>• Max 1 ppm NO<sub>x</sub></li><li>• Max 1 ppm SO<sub>2</sub></li></ul>	Boeing BSS 7239, flaming mode

## Contact Songhan Plastic Technology Co.,Ltd.

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