

## Evonik Corporation Solimide® TA-301 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. Information provided by degussa.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Evonik-Corporation-Solimide-TA-301-Polyimide-Foam.php](http://www.lookpolymers.com/polymer_Evonik-Corporation-Solimide-TA-301-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	>= 0.0590 MPa	>= 8.56 psi	ASTM D3574E

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0430 W/m-K	0.298 BTU-in/hr-ft <sup>2</sup> -°F	ASTM C518
Maximum Service Temperature, Air	200 °C	392 °F	Continuous Use
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
	5.0 @Thickness 22.0 mm	5.0 @Thickness 0.866 in	Smoke Developed Index (SDI); ASTM E84-95
Flame Spread Index	2.0	2.0	Radiant Panel; ASTM E162
	0.00 @Thickness 22.0 mm	0.00 @Thickness 0.866 in	Surface Burning; ASTM E84-95

Descriptive Properties	Value	Comments
Acoustical Absorption Coefficient (1000Hz)	1.03 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
	1.10 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting

Acoustical Absorption Coefficient (125 Hz) Descriptive Properties	0.67 sabins/m <sup>2</sup> Value	25 mm, ASTM C423 and E795, Type A Mounting Comments
	0.27 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (2000 Hz)	0.90 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
	1.02 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (250 Hz)	0.18 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
	0.59 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Acoustical Absorption Coefficient (4000 Hz)	0.93 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 (500 Hz)	0.61 sabins/m <sup>2</sup>	25 mm, ASTM C423 and E795, Type A Mounting
	1.14 sabins/m <sup>2</sup>	50 mm, ASTM C423 and E795, Type A Mounting
Noise Reduction Coefficient	0.75	25 mm, ASTM C423 and E795, Type A Mounting
	0.9	50 mm, ASTM C423 and E795, Type A Mounting

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China