

## Zotefoams ZOTEK® F 40 HT LS PVDF Foam

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

### Material Notes:

Zotek® F 40 is a closed cell foam made from Arkema Kynar® PVDF manufactured using nitrogen expansion technology to produce foams with exceptional cell size uniformity, low odor / high purity and outstanding physical attributes. This grade is recommended for applications where very low smoke is required in the event of a fire. Compliant with US FDA regulations. Information provided by Zotefoams

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Zotefoams-ZOTEK-F-40-HT-LS-PVDF-Foam.php](http://www.lookpolymers.com/polymer_Zotefoams-ZOTEK-F-40-HT-LS-PVDF-Foam.php)

Physical Properties	Metric	English	Comments
Density	0.0340 g/cc	0.00123 lb/in <sup>3</sup>	ISO 845
Cell Length	0.180 mm	0.00709 in	

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.544 MPa	78.9 psi	ISO 1798
Elongation at Break	129 %	129 %	
Compressive Yield Strength	0.0920 MPa @Strain 25.0 %	13.3 psi @Strain 25.0 %	ISO 7214
Tear Strength	0.823 kN/m	4.70 pli	ISO 8067
Compression Set	29 % @Time 79200 sec, Strain 50.0 %	29 % @Time 22.0 hour, Strain 50.0 %	0.5 hr recovery; ASTM D3575

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0321 W/m-K	0.223 BTU-in/hr-ft <sup>2</sup> -°F	mean temp of 0°C; ISO 8301
	0.0370 W/m-K	0.257 BTU-in/hr-ft <sup>2</sup> -°F	mean temp of 50°C; ISO 8301
	0.0407 W/m-K	0.282 BTU-in/hr-ft <sup>2</sup> -°F	mean temp of 83°C; ISO 8301
Maximum Service Temperature, Air	155 °C	311 °F	
Flammability Test	0.00 @Thickness 3.00 mm	0.00 @Thickness 0.118 in	Smoke Developed Index; ASTM E84/UL 723
	5.0 @Thickness 25.0 mm	5.0 @Thickness 0.984 in	Smoke Developed Index; ASTM E84/UL 723
	0.00	0.00	

Flame Spread Index Thermal Properties	Metric @ Thickness 3.00 mm	English @ Thickness 0.118 in	ASTM E84/UL 723 Comments
	5.0	5.0	ASTM E84/UL 723
	@Thickness 25.0 mm	@Thickness 0.984 in	

Descriptive Properties	Value	Comments
Flammability	Heat Release: FAR/CS 25.853, 2 min total	30.2 kW/m <sup>2</sup>
	Heat Release: FAR/CS 25.853, Peak	35 kW/m <sup>2</sup>
	Smoke Emission: ABD0031	8 Ds Max in 4 min, flaming
	Smoke Emission: ABD0031	7 Ds Max in 4 min, not flaming
	Smoke Emission: FAR/JAR/CS 25.853	8 Ds Max in 4 min, flaming
	Toxic Gas Emission: ABD0031	Pass at 25 mm

## Contact Songhan Plastic Technology Co.,Ltd.

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