

Zotefoams ZOTEK® F OSU Flexible PVDF Foam

Category : Polymer , Thermoplastic , Fluoropolymer , PVDF

Material Notes:

Zotek® F OSU 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 ideal for soft trim in combination with leathers, textiles and decorative laminates. Information provided by Zotefoams

Order this product through the following link:

http://www.lookpolymers.com/polymer_Zotefoams-ZOTEK-F-OSU-Flexible-PVDF-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0330 g/cc	0.00119 lb/in ³	ISO 845
Water Absorption	0.060 %	0.060 %	ISO 2896
	2.2 %	2.2 %	ASTM 1056

Mechanical Properties	Metric	English	Comments
Tensile Strength	0.245 MPa	35.5 psi	ISO 1798
Elongation at Break	88 %	88 %	
Compressive Yield Strength	0.0600 MPa	8.70 psi	ISO 7214
	@Strain 25.0 %	@Strain 25.0 %	
Compression Set	17 %	17 %	0.5 hr recovery; ISO 7214
	@Time 79200 sec, Strain 50.0 %	@Time 22.0 hour, Strain 50.0 %	

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0330 W/m-K	0.229 BTU-in/hr-ft ² -°F	mean temp of 0°C; ISO 8301
	0.0380 W/m-K	0.264 BTU-in/hr-ft ² -°F	mean temp of 40°C; DIN 52 612
	0.0460 W/m-K	0.319 BTU-in/hr-ft ² -°F	mean temp of 80°C; ASTM C 518
Maximum Service Temperature, Air	110 °C	230 °F	

Descriptive Properties	Value	Comments
Flammability	Heat Release: FAR/CS 25.853, 2 min total	39.8 kWmin/m ² at 25 mm
	Heat Release: FAR/CS 25.853, Peak	49.1 kW/m ² at 25 mm
	Radiant Heat Panel: FAR 25.856	Pass at 3, 13, and 25 mm

Descriptive Properties	Smoke Density: ABD0031 Value	Pass at 3 and 13 mm Comments
	Smoke Density: FAR/CS 25.853	Pass at 3 and 13 mm
	Toxic Gas Emission: ABD0031	Pass at 3 and 13 mm
	Vertical Bunsen Burner: FAR/CS 25.853	Pass at 3 and 13 mm

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