Zotefoams ZOTEK® F OSU Rigid 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, including low FST cores for composites and divider panels.Information provided by Zotefoams

Order this product through the following link:
http://www.lookpolymers.com/polymer_Zotefoams-ZOTEK-F-OSU-Rigid-PVDF-Foam.php

Physical Properties	Metric	English	Comments
Density	0.0740 g/cc	0.00267 lb/in³	ISO 845

Mechanical Properties	Metric	English	Comments
Tensile Strength	1.00 MPa	145 psi	ISO 1798
Elongation at Break	90 %	90 %	
Compressive Yield Strength	0.150 MPa @Strain 25.0 %	21.8 psi @Strain 25.0 %	ISO 7214
Compression Set	20 % @Time 79200 sec, Strain 50.0 %	20 % @Time 22.0 hour, Strain 50.0 %	0.5 hr recovery; ISO 7214

Thermal Properties	Metric	English	Comments
Thermal Conductivity	0.0323 W/m-K	0.224 BTU-in/hr-ft²-°F	mean temp of 0°C; ISO 8301
	0.0369 W/m-K	0.256 BTU-in/hr-ft²-°F	mean temp of 50°C; ISO 8301
	0.0416 W/m-K	0.289 BTU-in/hr-ft²-°F	mean temp of 83°C; ISO 8301
Maximum Service Temperature, Air	157 °C	315 °F	

Descriptive Properties	Value	Comments
Flammability	Heat Release: FAR/CS 25.853, 2 min total	Pass at 13 mm
	Heat Release: FAR/CS 25.853, Peak	Pass at 13 mm
	Radiant Heat Panel: FAR 25.856	Pass at 3, 13, and 25 mm
	Smoke Density: ABD0031	Pass at 13 mm

Descriptive Properties	Value	Comments
	Smoke Density: FAR/CS 25.853	Pass at 13 mm
	Toxic Gas Emission: ABD0031	Pass at 13 mm
	Vertical Burner (60 sec): FAR/CS 25.853	Pass at 25 mm

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