



## PVDF-FOAM

## ZOTEK® F30

BMS 8-371

Applications	thermal insulation for doors, cargo sections, tube & valve systems
Material	closed cell Polyvinylidenfluorid-Foam. These unique properties make it ideal for a wide range of applications.
Colour	white
Typical properties	flexible, formable, flame propagation resistant
Density	30 kg/m <sup>3</sup>
Thickness	available from 2 mm up to 25 mm
Dimensions	2000 mm x 1000 mm
Flammability	meets the requirements of BMS 8-371, ABD 0031, CS/FAR 25.856(a) CS/FAR 25.App.F, Part I (a)(1)(ii)
Temperature range	- 55 °C to + 110 °C
Characteristics	<ul style="list-style-type: none"> <li>- good mechanical performance</li> <li>- fine uniform and closed-cell structure</li> <li>- very low water absorption</li> <li>- low water vapour transmission rate</li> <li>- odourless</li> <li>- non-toxic</li> <li>- non-staining</li> </ul>
Processing	PVDF-Foam can be ... <ul style="list-style-type: none"> <li>- cut</li> <li>- skived</li> <li>- welded</li> <li>- bonded</li> </ul> <ul style="list-style-type: none"> <li>- punched</li> <li>- thermo laminated</li> <li>- thermo formed</li> <li>- press formed</li> </ul> <p style="text-align: right;">... without problems!</p>



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Properties	Standard	Unit	F30 <sup>1)</sup>
Density	ISO 845	kg/m <sup>3</sup>	30
Compression stress strain characteristics, 25% compression	ISO 7214	kPa	79
Tensile strength	ISO 1798	kpa	382
Elongation at break	ISO 1798	%	191
Water absorption 168 h	ISO 2896	%	0,06
Storage time		-	unlimited
Thermal conductivity at 40 °C	ISO 8301	$\frac{W}{m \cdot k}$	max 0.038
Flammability	CS/FAR 25.853(d) CS/FAR 25 App F Pt IV	pass at 3 mm and 13 mm	
Smoke density	CS/FAR 25.853(d) CS/FAR 25, App F Pt V	pass at 3 mm and 13 mm	
Smoke density	ABD0031 para.2.3.2	pass at 3 mm and 13 mm	
Toxic gas emission	ABD0031 para.2.3.2	pass at 3 mm and 13 mm	
Vertical bunsen burner	CS/FAR 25, App F, Part I (a)(1)(ii)	pass at 3 mm and 25 mm	
Radiant heat panel	CS/FAR 25, App F Part VI	pass at 3 mm and 25 mm	

1) Typical Value

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with adhesive 63

Properties	Standard	Unit	F30 *
Density <sup>1)</sup>	ISO 845	kg/m <sup>3</sup>	30
Compression stress strain characteristics, 25% compression <sup>1)</sup>	ISO 7214	kPa	50
Tensile strength <sup>1)</sup>	ISO 1798	kpa	382
Elongation at break <sup>1)</sup>	ISO 1798	%	191
Water absorption 168 h <sup>1)</sup>	ISO 2896	%	0,06
Peel strength after 72 h	ISO 8510-2	N/25 mm	15
Storage time at -10°C to 25°C/ 10% RH to 70% RH		months	12
Thermal conductivity at 40 °C <sup>1)</sup>	ISO 8301	$\frac{W}{m \cdot k}$	max 0.038
Flammability	CS/FAR 25, App. F Part I Para. (a)(1)(ii)	passed at 3 mm and 13 mm bonded on 0,025 mm Alu-foil	

\* typical Value

1) without adhesive