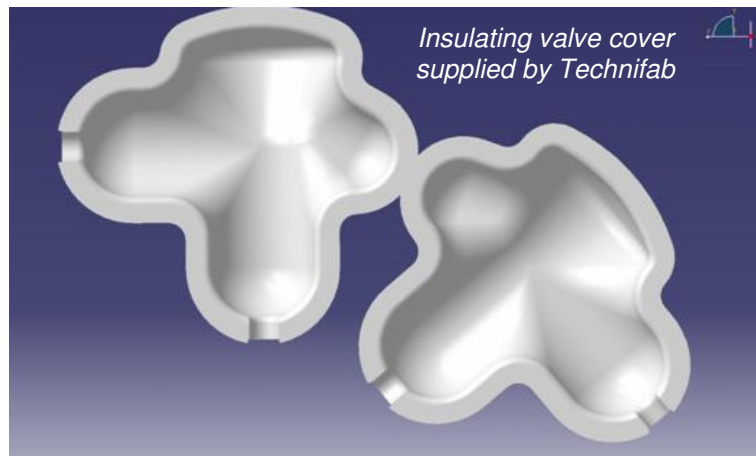


ZOTEK[®] F 30

Cool Material for Aircraft

Refrigerator Insulation

April, 2009



Ipeco, the world-leading manufacturer of aircraft crew seating and galley equipment, has specified ZOTEK[®] F 30 PVDF Foam for insulating its refrigerator components and associated piping.

Inherently flame retardant, ZOTEK[®] F is thought to be the only closed cell foam insulation material to pass the stringent FAR 25.856 (a) "Radiant Panel Test" a decisive factor in Ipeco's specification decision.

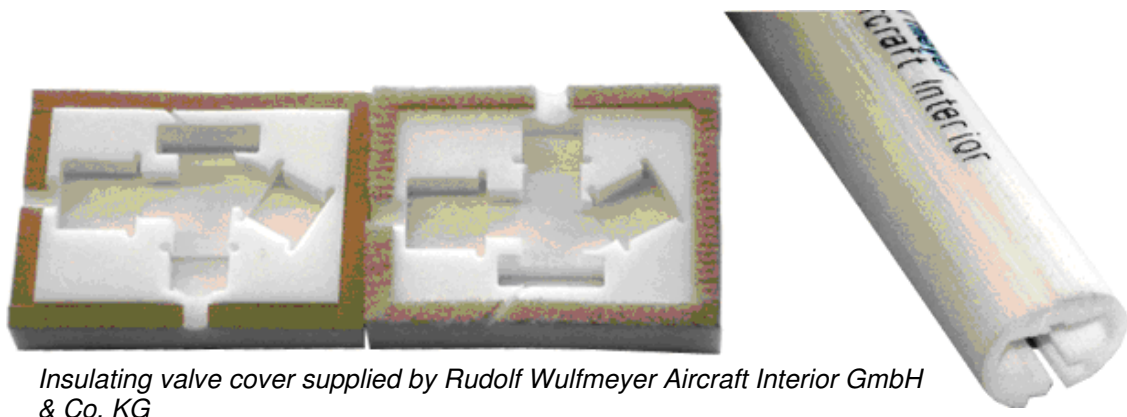
A unique and beneficial feature of ZOTEK[®] F foams is its ability to be thermally moulded into complex three-dimensional shapes. The material can be vacuum formed, compression-moulded and thermally bonded to create many unique functional parts.

Refrigerator sides are insulated with ZOTEK[®] F 30 in sheet form and the 8 mm pipes are insulated in tubular form.

Thermostatic expansion valve insulation parts are fabricated for IPECO in two different ways; for larger numbers of parts compression moulding is used, allowing efficient use of material, whereas machining directly from a block of ZOTEK[®] F 30 PVDF Foam involves lower set-up cost.

ZOTEK[®] F 30 is white in colour and operates effectively over a wide temperature range (-40°C to +110°C). It has a thermal conductivity, at 40°C, of 0.038 W/m/K and exhibits both low water vapour transmission and low vapour absorption.

The material is proven to be closed cell and has a density of 30 kg/m³ (1.9 lb/ft³)



Further information:

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