



Solef[®] PVDF 80 000 Series: Expanded PVDF

Product:

Solef[®] PVDF 80 000 Series: Expanded PVDF (Poly Vinylidene Fluoride) is a closed cell foam capable of being moulded into complex 3D shapes. It can be supplied with a density from 110 g/l to 140 g/l. It has been developed by JSP and SOLVAY SOLEXIS. The foamed product is produced using JSP's ARPRO[®] foaming process combined with SOLVAY SOLEXIS's Solef[®] PVDF resin. JSP will transform the foam into the required parts as well as producing the foam raw material.

The product combines the excellent properties that come from the intrinsic raw material characteristics - purity, fire resistance, chemical resistance, long term stability and weather resistance - with the values added by foaming - energy absorption, resiliency, light weight and thermal insulation.

Applications:

Products that can be made are energy absorbers, cushions, dunnage, packaging and thermal insulation. The special properties of purity, fire resistance, chemical resistance, long term stability and weather resistance allow access to tough environments where current foam products struggle. These application areas are Semiconductor, Chemical processing, Oil & gas and Aerospace industry.

Typical Physical Properties:

Grade	Standard	80 111	80 112	80 114
Density	ISO 845	110 g/l	120 g/l	140 g/l
Compressive strength 25% compression 50% compression 75% compression	ISO 844 5 mm/min	170 kPa 260 kPa 630 kPa	200 kPa 290 kPa 690 kPa	250 kPa 370 kPa 840 kPa
Tensile strength Tensile elongation	ISO 1798	710 kPa 60 %	790 kPa 60 %	950 kPa 70 %
Compression set 25% strain – 22 hrs – 23°C	ISO 1856 C Stabilising 24 hrs	4.5 %	4.5 %	4.5 %
Stress-strain characteristics "Stauchhärte"	ISO 3386 40%; 4 th cycle	130 kPa	140 kPa	160 kPa

Further information concerns Solef[®] PVDF 80 000 Series (Expanded PVDF) is available at www.PVDF.com and on request. Other information concerns Solef[®] PVDF resin is available at www.solvaysolexis.com and on request.