

UniSeal FR3000

Fire Retardant PVC Foam



UniSeal FR3000 is a high-density, closed-cell PVC foam sealant material which is ideal for applications requiring a seal against water and environmental contamination.

UniSeal FR3000 has excellent fire-resistant properties and is available with an acrylic pressure-sensitive adhesive on one side for easy handling and application. **UniSeal FR3000** is suitable for a wide variety of applications and industries including sealing LED lighting fixtures, EV battery packs and protecting electronics.

Features

- Non-silicone and low contact resistance
- 180 kg/m³ density
- Excellent tear strength
- High-performance sealing
- Superb handling and application; removable paper liner prevents deformation during application

Availability

- Thicknesses of 1.5, 3, 4.5 and 6mm
- Available as custom die-cut shapes and parts
- Widths available between 6mm to 1200mm
- Paper release liner
- Available in black (all thicknesses)

Typical Physical Properties

Property (unit)	Test Method	UniSeal FR3000
Colour	Visual	Black
Hardness (Shore 00)	ASTM D2240	50
Operating Temp. (°C)	-	-30 to +70
Fire Retardancy	In-House	Equiv. UL V0
Water Absorption	-	1% Max
Tensile Strength	-	50 N/cm ²
Elongation	-	75% Max
Aging	-	Temp/UV Res

Benefits

- Highly compressible providing good protection against water ingress and resistance to chemicals, oxygen, weathering, mold and mildew
- Excellent vibration dampening and abrasion resistance
- Certified to Class B2 of DIN 4102-01
- Easy to convert in to custom designs

Recommended Uses

- Appliance and automotive seals
- High load-bearing applications
- Anti squeak applications
- Liquid containment tanks
- Suitable for heavy duty metal-to-metal sealing

Electrical and Mechanical Information

Property (unit)	Test Method	UniSeal FR3000
Density (g/cc)	-	180 kg/m ³
Compression by 30%	-	6.0 N/cm ²
Deflection by 30%	-	4.9 N/cm ²

Limitations

- Not suitable for polycarbonate
- Minimum application temperature +5°C

