

PF100-LD SERIES

Norseal® PF100 Series, Micro-Cellular Polyurethane Foams

Norseal PF100-LD Series is manufactured by **Saint-Gobain®** Performance Plastics Corporation, Tape Solutions business, and features premium micro-cellular polyurethane foam specifically intended for cell cushioning within electric vehicle battery packs. This generation of foam provides one of the flattest compression curves of our portfolio, a critical performance measurement commonly required by today's battery pack design engineers.

PF100-LD exhibits outstanding, industry leading, “aged” compression set resistance at elevated temperature (up to 90°C) and humidity conditions, essential for extending the battery pack life. PF100-LD modified cell structure allows for a very low-density cushioning foam which can be vacuumed for ease of installation.

A typical compression curve of **Norseal** PF100-LD Cushion Pads is shown in Figure 1 to highlight the narrow range of compressive stresses across a wider range of compressive strain, maintaining its overall softness.

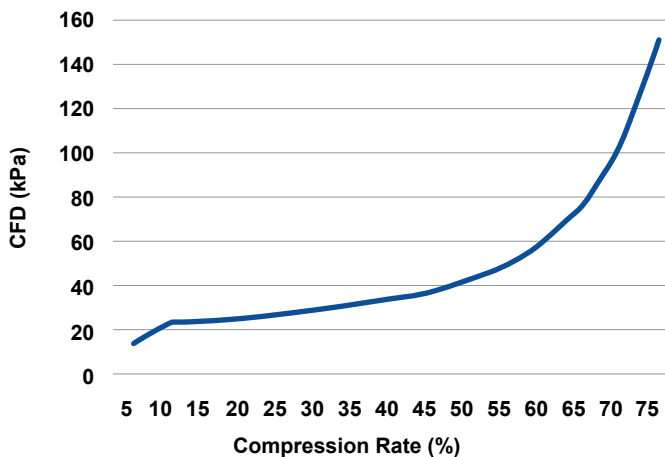


Figure 1.

APPLICATIONS

- Compression/Tolerance pads for lithium-ion battery packs
- Vacuum-able cell-to-end-spacers for CTP pack design
- Cushioning and insulation for thermistors in lithium-ion battery packs

ADVANTAGES

- UL94 HBF equivalent
- Excellent aging performance
- Flat CFD curve
- Wider thickness range
- Very low density

Norseal PF100-LD Series — Properties

Performance tests are run using standard test procedures. The values presented are typical values and should not be used for specification purposes.

Properties	Test Method	Value
PHYSICAL		
Density, kg/m ³	ASTM D3574	110
Thickness, mm (in)	-	6-11
Standard color	-	Black
Compression set (@ 70%, 7 days, 70°C), %	ASTM D1667	<5
Typical Compression Force Deflection, kPa (psi)	ASTM D1667**	24 kPa (3.5 psi) @15% 40 kPa (7.8 psi) @50% 100 kPa (19.6 psi) @70%
THERMAL		
Temperature resistance, °C (°F)	Recommended constant use, max. Recommended intermittent, max.	70 (158) 121 (250)
Thermal Conductivity, W/m.K	ASTM C518	0.04
ELECTRICAL		
Dielectric breakdown, kV	ASTM D149	>3
Volume Resistivity, Ω·cm	ASTM D257	>10 ¹²
FLAME RESISTANCE		
Flame Resistance	ASTM D4986 (Equivalent to UL94-HBF)	PASS
ENVIRONMENTAL		
Regulations	RoHS, REACH	PASS

* Data in the table above is only typical value and preliminary. This cannot be considered as product specifications. Please consult your representative for more details.
** Samples preconditioned ≥ 24 hrs @ 50%RH.

Recommended Storage Conditions

Store at 15°C to 35°C (59°F to 95°F) with 30% to 60% humidity. Protect from sunlight and UV exposure, ensure good ventilation, avoid heavy stacking to prevent deformation. Store packed logs vertically and/or follow specific packaging instructions.

Shelf Life (when stored as indicated above)

Foam without adhesive: 24 months from the date of sales.

Foam with adhesive: 12 months from the date of sales.



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