

ProCell™ EV Firewall Barrier

ProCell™ EV Firewall barrier is a specially formulated cellular silicone elastomer designed to delay thermal runaway and temperature spikes within electrical vehicle battery packs. The material offers a single solution for both compression pad and protection against thermal propagation needs within and around the battery packs.

Features & Benefits:

- Protection during catastrophic thermal events.
- Consistent performance across a wide temperature range
- Low Compression set
- Excellent long term reliability and performance

PROPERTY	TEST METHOD	PCL-350	PCL-400
PHYSICAL			
Color	Visual	White	White
Thickness, mm	Internal	1 - 5	1 - 5
Density range, kg/m ³	ASTM D1056	400 - 641	529 - 721
Compression Force Deflection range, kPa	ASTM D1056 25% Deflection	50 - 125	73 - 154
Tensile, kPa	ASTM D412	555	276
Elongation, %	ASTM D412	132	90
Tear Strength, kN/m	ASTM D624	0.0015	0.0011
Compression Set, %	ASTM D1056 100°C / 22 hrs / 50%	3.0	3.0
FLAMMABILITY			
Flame Resistance	UL 94	V-0 / 5VA ¹	V-0 / 5VA ¹
ELECTRICAL & THERMAL			
Thermal Conductivity, W/m °K	ASTM D5470, 50°C ASTM D5470, 200°C	0.15 0.15	0.13 0.14
Specific Heat, J/g°C	Internal, 23°C	1.7	1.8
Dielectric Strength, kV/mm	ASTM D149-97a	6.1	5.4
ENVIRONMENTAL			
Water Absorption, %	Internal, 23°C / 24 hrs	1.2	3.8

- Additional technical information and product specifications are available upon request.

- All metric conversions are approximate.

Graph 1: Compression Force Deflection Full Range (ASTM D1056)

