

ProCell™ EV Firewall Barrier

ProCell™ EV Firewall barrier is a special 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:

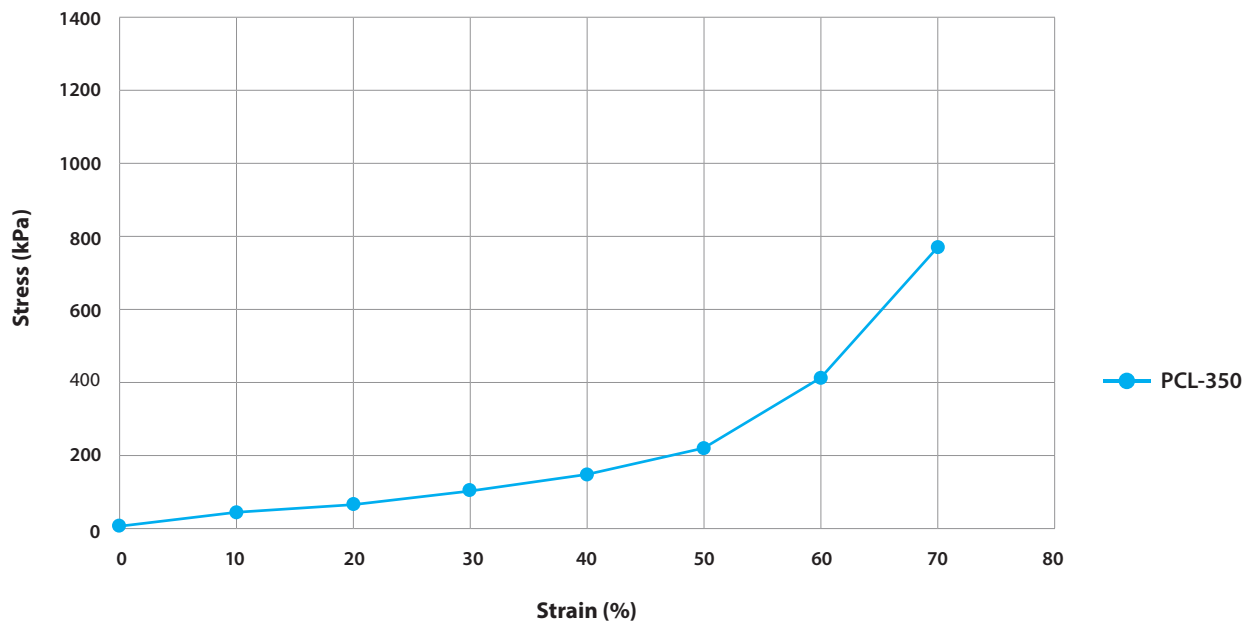
- Protection during catastrophic thermal events
- Consistent performance across a wide temperature range
- Low Compression set
- Excellent long term reliability and performance

PROPERTY	TEST METHOD	PCL-350
PHYSICAL		
Color	Visual	White
Thickness, mm (inches)	Internal	1.5 - 3 (0.059 - 0.118)
Tolerance, %		± 10
Density range, kg/m ³ (lb/ft ³)	ASTM D1056	400 - 717 (24.97 - 44.76)
Compression Force Deflection range, kPa (psi)	ASTM D1056 25% Deflection	50 - 125 (7.25 - 18.13)
Tensile, kPa (psi)	ASTM D412	555 (80.5)
Elongation, %	ASTM D412	132
Tear Strength, kN/m	ASTM D624	0.0015
Compression Set, %	ASTM D1056 100°C / 22 hrs / 50%	3.0
FLAMMABILITY		
Flame Resistance	UL 94	V-0 / 5VA ¹
ELECTRICAL & THERMAL		
Thermal Conductivity, W/m °K	ASTM D5470, 50°C	0.15
	ASTM D5470, 200°C	0.15
Specific Heat, J/g°C	Internal, 23°C	1.7
Dielectric Strength, kV/mm	ASTM D149-97a	6.1
ENVIRONMENTAL		
Water Absorption, %	Internal, 23°C / 24 hrs	1.2

¹Testing only certified for 3.0mm (0.118 inches) or thicker and tested at a 3rd party lab.

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



Notes:

- Additional technical information and product specifications are available upon request.
- All metric conversions are approximate.

For more information and to request a sample, please contact our team of experts at solutions@rogerscorp.com