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For Immediate Release

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Stockwell Elastomerics Announces Three Ultra-Soft, Silicone-Based, Thermally-Conductive Gap Fillers from Polymer Science

PS-1541, PS-1543, and PS-2505 P-THERM® gap fillers from Polymer Science are highly compressible, promote heat dissipation, and conform to irregular surfaces.

Philadelphia, PA, January 24, 2023 – Stockwell Elastomerics is announcing the availability of three ultra-soft, silicone-based P-THERM [thermal gap fillers](#) from Polymer Science for conversion and distribution. PS-1541, PS-1543, and PS-2505 promote heat dissipation and support compression between surfaces where there are height variations or dimensional tolerance issues. These thermally-conductive gap filler materials also have an embedded fiberglass support and removable polyester carrier for ease-of-installation. Applications include gap filler pads for EV battery components, LED and automotive lighting, infotainment modules, and computers, tablets, smartphones, and digital personal assistants.

All three ultra-soft, silicone-based, thermally-conductive gap fillers from Polymer Science provide good wet-out so that they conform to irregular surfaces and fill the air gaps between printed circuit board (PCB) components. The thermal conductivity of PS-1541, PS-1543, and PS-2505 is significantly greater than air (0.025 W/m K) and ranges from 1 to 5 W/m K. These [thermal interface materials](#) also vary in terms of dielectric strength and durometer. Hardness is measured on the Shore 00 scale, which is for rubbers and gels that are very soft.

The table below shows key product specifications; view the [thermally conductive materials data sheets page](#) for details.



Gap Filler	Hardness	Thermal Conductivity	Dielectric Breakdown Strength
PS-1541	9 Shore 00	1 W/m K	9.36 kV/mm
PS-1543	47 Shore 00	3 W/m K	6.80 kV/mm
PA-2505	54 Shore 00	5 W/m K	18.00 kV/mm



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“Today’s electronics are putting more heat-generating components into increasingly smaller spaces, including applications where there are irregular surfaces or dimensional tolerance issues,” said Dan Shanahan, Director of Application Engineering. “Stockwell Elastomerics is pleased to provide the industry with thermally-conductive gap fillers from Polymer Science that address these and other thermal management challenges.”

PS-1541, PS-1543, and PS-2505 have a UL 94V-0 flammability rating and comply with Restriction of Hazardous Substances (RoHS) and halogen free (HF) requirements. These highly compressible and flexible materials are supplied on rolls or sheets in thicknesses that range between 0.5 mm and 5.00 mm. Their excellent converting properties support die cutting and waterjet cutting, services that Stockwell Elastomerics provides at its manufacturing facility in Philadelphia, Pennsylvania (USA).

About Stockwell Elastomerics, Inc.

Stockwell Elastomerics provides high performance gaskets and materials, using silicone rubber, fluorosilicone, and similar high performance elastomers to solve design and manufacturing challenges. Its customer base includes companies in the North American technology sector who utilize the company's innovation and responsiveness to bring their products to market more quickly. Key markets include medical diagnostic equipment, ruggedized portable devices, aerospace and defense, airflow management, alternative energy and analytical instrumentation. The company became an ESOP in 2017. Stockwell Elastomerics is ISO 9001:2015 registered. For complete information on Stockwell Elastomerics' products, manufacturing capabilities and industries served, please visit <https://www.stockwell.com>.

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