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Rubber SILICONE RUBBER



Precipitated Silica for Silicone Rubber Applications

In the 1930s, PPG became one of the first companies to manufacture precipitated silica for use in base silicone rubber compounds and has remained a leading industry supplier ever since.

Available in a variety of formulations, the quality, purity and proven performance of PPG's precipitated silica products enables them to function as premium, value-focused alternatives to fumed silica in black, non-black, colored, and translucent silicone rubber compounds by incorporating the following mechanical properties:

- Excellent tensile-strength, tear-strength and flex-fatigue resistance
- · Cost-effective reinforcing strength
- · Reduced crepe hardening
- Outstanding compression-set resistance
- · Exceptional resistance to heat-aging

Together, these properties have the potential to reduce costs and process inefficiencies for silicone rubber compounders by providing:

- More flexible inventory management through reduced shelf hardening
- Faster, more efficient mixing and re-milling of elastomers
- · Less fly-loss-related product waste

Through its flagship HI-SIL[®] silica product line, PPG offers a complete selection of specialized synthetic amorphous precipitated silica formulations that integrate physical properties such as particle size, surface area and pH levels according to the demands of both the compounder and the ultimate end-user.

Recommended Products and Typical Properties for Silicone Rubber Applications

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Silica Product (BET-5) Surface Area (m²/g) PH Residual Salt Type Physical Form Reinforcement

Hi-Sil 532EP 55 8 Na<sub>2</sub>SO<sub>4</sub> Powder Semi-Reinforcing
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Hi-Sil 900	135	7	Na ₂ SO ₄	Powder	Reinforcing	
Hi-Sil 233-D	151	7	Na ₂ SO ₄	Powder	Reinforcing	
Hi-Sil 135	150	7	Na ₂ SO ₄	Powder	Reinforcing	
Hi-Sil 132	180	7	Na ₂ SO ₄	Powder	Reinforcing	
Hi-Sil 915	195	7	Na ₂ SO ₄	Powder	High	

Hi-Sil is a registered trademark of PPG Industries Ohio, Inc.

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Insulating wire covers

Heat-resistant belts and hoses

Flexible and elastic gaskets, seals and o-rings

Touchpads and computer keypads

Related Resources

Hi-Sil Reinforcing Fillers for Silicone Rubber

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