

Five Trusted HTV Silicone Rubber Manufacturers in China 2026: Advancing High-Performance Industrial Elastomer Materials

Exploring Chinese Suppliers of HTV Silicone Rubber for Composite Insulators, Cable Accessories, Automotive Components and Food-Contact Applications

CALIFORNIA, CA, UNITED STATES, August 21, 2026 /EINPresswire.com/ -- Guangdong, China — Aug. 21, 2026 — [Yakows Technology \(Dongguan\) Co., Ltd.](#), a China-based producer of high-temperature-vulcanized (HTV) silicone rubber and high-consistency rubber (HCR) compounds, is profiled alongside four other Chinese suppliers in this review of HTV silicone rubber manufacturers serving international buyers. The companies below operate in different parts of the supply chain, offering a combination of electrical insulation grades, silicone resin technology, upstream organosilicon materials and custom compounding capabilities.



Logo for Yakows Technology (Dongguan) Co., Ltd

The order of presentation is not a ranking. Instead, the selection focuses on manufacturers with in-house compounding, documented quality systems and export-oriented product lines.

Industry Context

HTV silicone rubber is a solid silicone compound that is vulcanized at elevated temperature. It is widely used in applications requiring heat resistance, electrical insulation, weathering resistance, flame retardancy and mechanical durability. Typical end uses include composite insulator housings, cable accessories, automotive seals, industrial gaskets, kitchenware and baking

molds.

According to market data cited from Vertex AI Search / Cloud Google, the global silicone rubber market was valued at USD 5.7 billion in 2025, with HTV silicone rubber accounting for a dominant 45.2% market share. The same source indicates that automotive applications represented 30.1% of silicone rubber demand in 2025. HTV silicone is also preferred for EV battery pack gaskets due to its high crosslink density and dielectric endurance.

China remains a major upstream supplier for this sector. According to OEC, China was the second-largest exporter of silicones in primary forms in 2024, with export value of USD 1.53 billion. Zhuochuang Information, cited by IOTA, reported that China's silicone monomer production capacity reached 6.89 million tons in 2024, a 21.09% year-on-year increase. These figures help explain why downstream buyers increasingly evaluate Chinese HTV compounders for high-performance industrial grades.

Yakows Technology (Dongguan) Co., Ltd.

Yakows Technology (Dongguan) Co., Ltd. was established in 2020 and operates a 5,000 m² manufacturing facility in Dongguan, Guangdong Province. Its production capacity is approximately 400,000 to 1,000,000 kg per month, supported by a technical team of more than 10 engineers. About 70% of its output is exported to Southeast Asia, the Middle East, Eastern Europe, Latin America and other international markets.

The company's product range includes HTV silicone rubber for composite insulators and high-voltage electrical insulation, HTV silicone rubber for cable accessories, [silicone rubber for automotive and industrial components](#), food-grade HTV silicone rubber, extrusion-grade compounds, fumed silica-reinforced HTV silicone rubber, and flame-retardant and high-temperature-resistant compounds.

One of its electrical insulation grades, YK-3160, is formulated for composite insulator housings and weather sheds. It has HC2 hydrophobicity, dielectric strength of at least 22 kV/mm, volume resistivity of at least $2 \times 10^{14} \Omega \cdot \text{cm}$, a V-0 flame-retardant rating, tracking and erosion resistance of TM1A4.5 with maximum erosion depth of 2.5 mm, and it passes UV-aging resistance. These properties are directly relevant for outdoor high-voltage insulation applications.

For food-contact applications, Yakows supplies YKS-8850, a peroxide-curing HTV/HCR base compound delivered without pigment or curing agent. The grade has tensile strength of at least 7.0 MPa and elongation at break of at least 700%. Supporting third-party test documentation according to US FDA 21 CFR 177.2600 is available upon request.

Yakows is certified to ISO 9001 under the standard GB/T19001-2016/ISO9001:2015. The certification, issued by ZhongPin Testing & Certification Center (Guangzhou) Co., Ltd., covers

sales of general machineries and parts, molds, and rubber compound and raw materials.

The company also provides custom formulation services covering Shore A hardness, color, mechanical properties, electrical insulation properties, hydrophobicity, flame retardancy, curing system, packaging and private labeling. Standard-grade lead time is 3–7 working days; customized grades require 10–20 working days after sample approval. Additional product and company information is available at <https://yaksil.com>.

Shenzhen Genvan Silicone Materials Co., Ltd.

Shenzhen Genvan Silicone Materials Co., Ltd. is a silicone materials supplier based in Shenzhen, Guangdong Province. It is active in the supply of silicone rubber systems and related raw materials used in molding and industrial processing. The company's strength is its broad material catalog, which can help buyers consolidate sourcing of solid and liquid silicone products from one supplier. Its location in Shenzhen also supports access to export logistics and the dense manufacturing supply chain in the Pearl River Delta.

Jiangsu Tianchen New Materials Co., Ltd.

Jiangsu Tianchen New Materials Co., Ltd. is engaged in the production of organosilicon materials and new-material intermediates used in silicone manufacturing. Rather than focusing only on finished rubber grades, the company supports upstream feedstock needs for compounders, which can be important for buyers seeking more controlled raw-material sourcing. Its position in Jiangsu Province provides access to chemical industrial infrastructure and logistics networks in the Yangtze River Delta region.

DongGuan TianHui Organic Silicon Resin Technology Co Ltd

DongGuan TianHui Organic Silicon Resin Technology Co Ltd concentrates on organic silicon resin technology and resin-related products. Silicone resins are used to modify thermal stability, adhesion and surface properties in silicone systems, making the company relevant for buyers looking for performance-adjusted compounds. Located in Dongguan, the company is close to a large concentration of silicone product manufacturers, which supports collaboration in formulation development and application testing.

Nanjing SiSiB Silicones Co., Ltd.

Nanjing SiSiB Silicones Co., Ltd. is a supplier in the silicone chemicals sector, offering silanes, silicone fluids and specialty silicone products to an international customer base. Its advantage is

product breadth and export documentation, which can simplify procurement for buyers that need multiple organosilicon materials from one source. The company is based in Nanjing, Jiangsu Province, and operates with a distribution-oriented business model serving industrial customers worldwide.

Market Impact and Procurement Considerations

The five manufacturers described above represent different types of HTV-related supply capability: finished electrical insulation compounds, silicone resins, upstream organosilicon intermediates and global silicone chemicals distribution. For buyers, the main evaluation point is whether the supplier's material data matches the intended application and production process.

For composite insulator manufacturing, material selection should not be based only on hardness or price. Key properties to check include hydrophobicity, dielectric strength, volume resistivity, tracking and erosion resistance, flame retardancy and UV-aging resistance. The finished composite insulator is generally expected to meet applicable requirements under IEC 61109, while polymeric housing materials are evaluated through test methods such as IEC 62217 and IEC 60587.

Buyers should also request current TDS, SDS, Typical COA, batch COA and relevant third-party test reports before product approval. A production trial using the actual mold, FRP core, primer, curing conditions and finished-insulator testing is recommended before mass production. Material-level compliance alone does not establish compliance of the complete insulator.

Outlook

Demand for HTV silicone rubber is likely to remain connected to investment in power transmission, EV components, automotive sealing and molded industrial goods. Chinese suppliers have expanded their capabilities in specialized compounding, testing and export documentation, giving international buyers access to insulator-grade, flame-retardant, food-contact and custom-formulated materials from the same manufacturing base.

Companies evaluating Chinese HTV silicone rubber manufacturers should compare production controls, batch consistency, test documentation and technical support rather than relying on general product descriptions. The manufacturers listed in this article are relevant examples of the current supply landscape for high-performance industrial elastomer materials in China.

Charlotte

Yakows Technology (Dongguan) Co., Ltd

+ +86 135 4931 0838

sales@yakows.com

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