



VALLEY ROLLER

Silicone STS Series



High Release Silicone Roll Coverings

Typical silicone compounds exhibit good heat resistance in roller applications but lack the physical properties that contribute to durability. In addition, high release silicone versions can be even more fragile leading to short runs and frequent roll changes. Valley Roller's Silicone STS series of roller coverings are ideally suited for applications where rollers must exhibit superior substrate release characteristics, excellent temperature resistance, and now, with enhanced physical properties, provide significantly improved durability, thus, contributing to longer roll cover life. Our Silicone STS-HR grade includes compound additives for even greater substrate release properties. Our STS TC series offers exceptional thermal conductivity.



Key Features & General Specifications



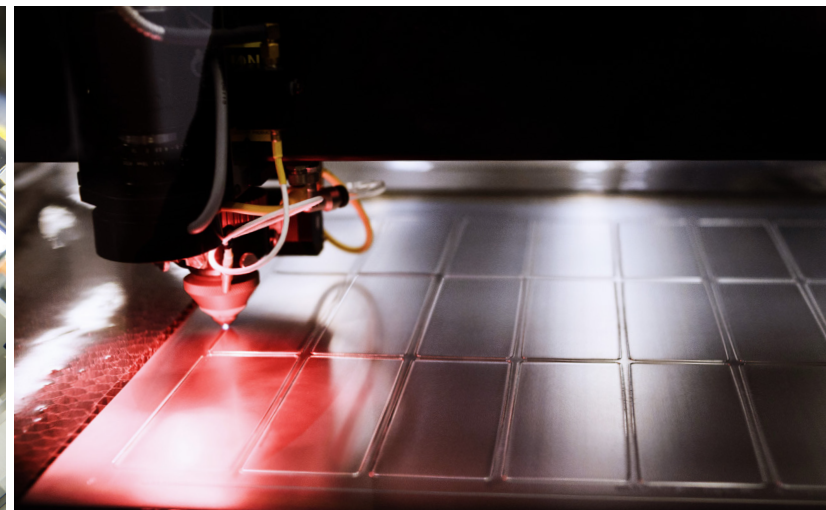
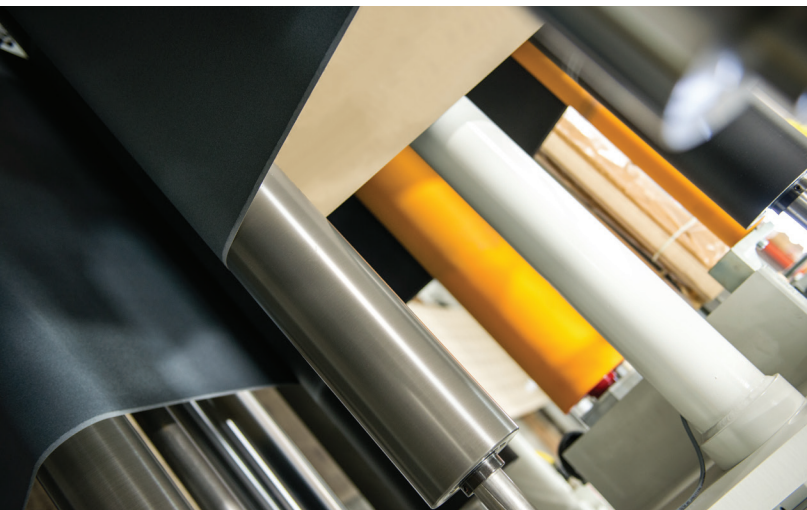
- Longer roll cover life and runtime
- Higher pressure loading with lower risk of bond failure
- Superior release, heat resistance, and abrasion resistance
- FDA compliant
- STS HR provides higher level of release
- STS TC provides higher level of thermal conductivity

Does the covering see heat? Is the environment wet or dry? Are chemicals involved? Will the roller carry a load? How fast does your line run? Do you need to run faster? Is your substrate smooth or abrasive? These are all important parameters to assess in order to select the right Silicone product for your application. The process of choice can be confusing.

Maxcess is here to help. Your Maxcess representative will walk you through the process of choice so your roll is covered with the right silicone compound the first time. We will ask the right questions, understand your goals, and work with you from concept to installation and beyond to ensure that you save time and money and run better, faster and smarter.

Silicone STS

SILICONE TECHNICAL DATA					
Physical Properties	Standard Silicone	Silicone STS	STS HR	STS TC	PTFE Sleeves
Hardness Shore A	40-90	30-85	30-85	80-90	Any
Abrasion Resistance	Poor	Above Avg	Avg	Avg	Avg
Tear Strength	Fair	Excellent	Above Avg	Avg	Avg
Hysteresis	Excellent	Excellent	Excellent	Above Avg	Varies
Resistance to Denting	Above Avg	Excellent	Excellent	Very Good	Above Avg
Load Bearing	Fair	Above Avg	Avg	Avg	Avg
Service Temperature	500°F	550°F	550°F	500°F	Varies
Ozone Resistance	Excellent	Excellent	Excellent	Excellent	Excellent
Resiliency	Excellent	Excellent	Above Avg	Excellent	Avg
Release Properties	Above Avg	Above Avg	Excellent	Avg	Excellent
Caustics	Above Avg	Above Avg	Above Avg	Very Good	Above Avg
Aliphatic Hydrocarbons	Fair	Fair	Fair	Fair	Excellent
Esters	Above Avg	Above Avg	Above Avg	Avg	Excellent
Recommended Thickness	0.125" - 2.00"	0.125" - 2.00"	0.125" - 2.00"	0.125" - 1.5"	0.030" - 0.060"



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