



SYL-OFF™ fluorosilicone release coating solutions for silicone PSAs

Open the way to innovative new opportunities

SYL-OFF™ Q2-7785 Release Coating SYL-OFF™ Q2-7560 Crosslinker

- Premier fluorosilicone release coating
- 80% solids in heptane
- Dry laminate to most silicone PSAs for very low release force over time
- Direct cast/transfer coat select DOWSIL™ pressure sensitive adhesives

Release the full potential of silicone pressure sensitive adhesives

Silicone PSAs have unique advantages that make them ideal for challenging, high-value applications. Now, with a wider range of fluorosilicone release coating solutions and complementary PSAs from Dow, you have new choices that could help you:

- Extend the adhesive performance of silicone PSAs to new applications and develop more innovative products
- Meet changing customer needs and enter new markets
- Achieve the best balance of economy and performance for your application

Choose from a range of opportunity-expanding fluorosilicone release coating and silicone PSA options

SYL-OFF™ brand fluorosilicone release coatings are designed to provide consistent, stable release from silicone pressure sensitive adhesives from Dow.

Typical tape constructions utilizing SYL-OFF™ fluorosilicone liners

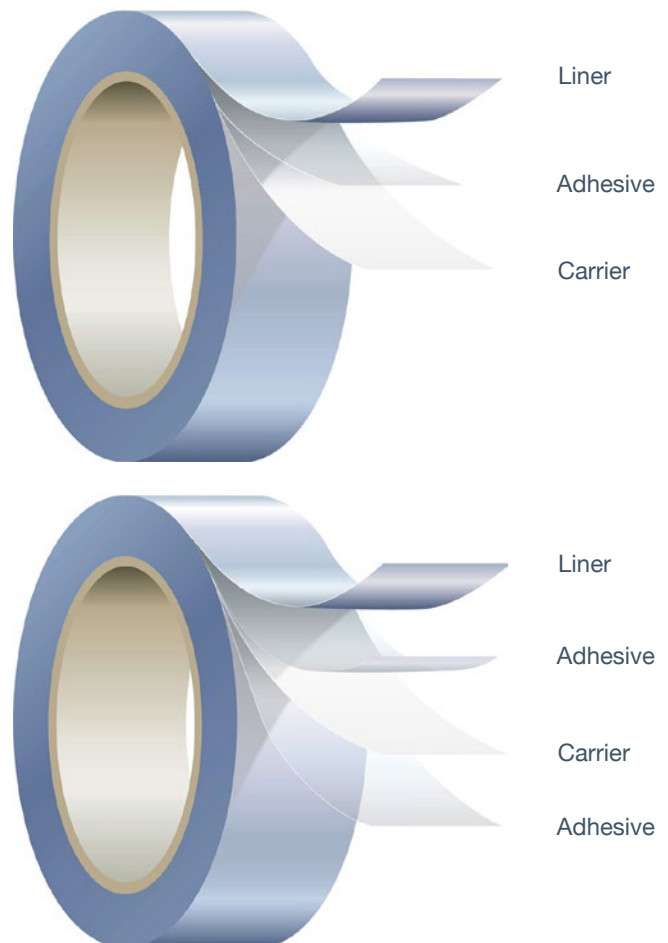


Table 1. DOWSIL™ silicone pressure sensitive adhesives for transfer coating/direct cast applications

Pressure sensitive adhesives	Transfer coated onto fluorosilicone liner					Dry lamination onto fluorosilicone liner				
	SYL-OFF™ 7555 Coating	SYL-OFF™ Q2-7785 Release Coating	SYL-OFF™ Q2-7786 Coating	SYL-OFF™ 7792 Fluorosilicone Release Coating	SYL-OFF™ 7795 Fluorosilicone Release Coating	SYL-OFF™ 7555 Coating	SYL-OFF™ Q2-7785 Release Coating	SYL-OFF™ Q2-7786 Coating	SYL-OFF™ 7792 Fluorosilicone Release Coating	SYL-OFF™ 7795 Fluorosilicone Release Coating
DOWSIL™ 2013 Adhesive	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
DOWSIL™ 7657 Adhesive		•	•	◊	◊	◊	◊	◊	◊	◊
DOWSIL™ Q2-7735 Adhesive	◊	◊	◊	◊	◊	◊	◊	◊	◊	◊
DOWSIL™ Q2-7406 Adhesive	•	◊	◊	◊	◊	•	◊	◊	◊	◊
DOWSIL™ Q2-7566 Adhesive	•	◊	◊	◊	◊	◊	◊	◊	◊	◊
DOWSIL™ 7355 Adhesive	•	◊	◊	◊	◊	◊	◊	◊	◊	◊
DOWSIL™ 7358 Adhesive		◊	◊	◊	◊	•	◊	◊	◊	◊
DOWSIL™ 280A Adhesive		•	•	◊	◊	•	◊	◊	◊	◊
DOWSIL™ 282 Adhesive	•	◊	◊	◊	◊	◊	◊	◊	◊	◊

◊ Recommended • Recommended under specific conditions

Alternative fluorosilicone coatings for select applications

SYL-OFF™ 7555 Coating and SYL-OFF™ SL 7561 Crosslinker (solvent-free)

- Dry laminate to most silicone PSAs
- Solvent-free/solvent coating options

SYL-OFF™ 7786 Coating and SYL-OFF™ Q2-7560 Crosslinker (solvent-free)

- Dry laminate to most silicone PSAs
- Solvent-free/solvent coating options

SYL-OFF™ 7792 and 7795 Coatings and SYL-OFF™ Q2-7560 Crosslinker

- Stably lower release force
- Dry laminate to most silicone PSAs
- Suitable for wet coating silicone PSAs

Nip-in performance

SYL-OFF™ Fluorosilicone Release Coatings offer very low release forces when silicone pressure sensitive adhesives are cast and cured onto the carrier film and the fluorosilicone release liner is nipped in following the cure step. The low release force allows for easy removal of the liner by hand or semi-automated production lines.

Transfer coat performance

When faced with thin, delicate or heat-sensitive films, transfer coating may be an option. Some silicone pressure sensitive adhesives may be coated directly onto films coated with

SYL-OFF™ Q2-7785 Release Coating, SYL-OFF™ 7786 Coating or SYL-OFF™ 7792 & 7795 Coating, letting the fluorosilicone liners bear the rigors of the coating and curing processes. The sensitive films can then be nipped onto the PSA, thereby transferring the PSA from the liner to the carrier. Some pressure sensitive adhesives are more suitable to transfer coating onto the fluorosilicone liner.

Differential release

Double-sided tapes, unsupported or transfer tapes may often require a differential in release to avoid confusion during application. One option to create a differential release force is to utilize the difference between direct-cast and nipped liner to get a differential of 1.2-2.5 ratio, depending on the application’s needs. SYL-OFF™ Fluorosilicone Release Coatings offer alternative options to process transfer-coated PSA and still obtain a differential release force.

Let us help

Release force can vary based on the processing conditions of the PSA and the fluoroliner, the PSA formulation and cure chemistry, coat weight, solvent effects, the age of the liner or PSA, the cure profile of the fluoroliner or PSA, the use of anchorage additive, and other factors. There are many ways Dow can help you develop new products, expand into new geographic markets, improve your productivity and drive down costs.

Contact us for more information

Dow has sales offices, manufacturing sites, and science and technology laboratories around the globe. For local product and customer service information, consult the Dow Films, Tapes and Release Liners website at www.dow.com.

Images: Getty-Images-106594415, dow_40435220895, dow_40435220887

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