

Scripset™ Copolymer Resins

Enhance Your Product's Performance

- Increase Strength and Durability
- Boost Adhesion
- Improve Water Resistance
- Solvent-System Capabilities

Technical Data

Scripset™ brand resins are multipurpose polymeric resins produced by the copolymerization of styrene and maleic anhydride and its ester derivatives. Commonly used in bottle label adhesives and photo-resist coatings for circuit boards, these resins promote water resistance, adhesion, strength, durability, flexibility, clarity, and high temperature resistance. They are also used to enhance the finished properties of paper, inks, coatings, pigment dispersions, adhesives, and latex gloves. The dual solubility characteristics of Scripset resins provide unique formulating capabilities that allow for the easy removal of bottle labels during recycling and the clean rinsing of photo resist coatings.

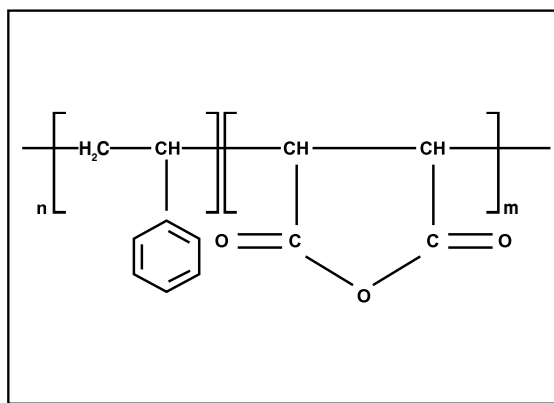
Scripset resins contain both anhydride and carboxylic functionality and may be used alone or with other polymers. They are available with molecular weights ranging from 105,000 to 350,000. Additionally, the ratio of styrene to maleic anhydride is varied from product to product, allowing for broad formulating capabilities. The copolymer of a Scripset resin includes both hydrophobic and hydrophilic polymers, providing surfactant like properties.

Scripset resins are available as free-flowing powders that are soluble in alkali and many solvent systems. Pre-blended solutions are available and contain either sodium hydroxide or ammonium hydroxide. Solution products are sold under the imPress™ brand name.

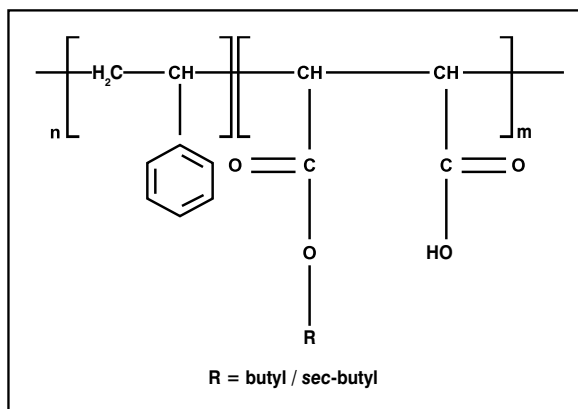
Scripset resins contain no formaldehyde, VOCs, or APEs/NPEs.

For more information on Scripset brand resins, please visit us online at ashland.com.

Scripset 520 Copolymer Resin (Styrene Maleic Anhydride)



Scripset 540 and 550 Copolymer Resins (Styrene Maleic Anhydride Ester)



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Product Selection Guide

Desired Property	Scripset Copolymer Resins			
	520	540	550	550E*
Hardness	+++	++	+	+
Film Forming	+++	++	+	+
High Temp. Resistance	+++	++	++	++
Adhesion - Metal	+++	++	++	++
Adhesion - Glass	+++	++	++	++
Adhesion - Polyester	++	++	++	++
Clarity	++	++	++	+++
Water Resistance	++	++	+++	+++
Flexibility	+	++	++	++

- + = Good
- ++ = Better
- +++ = Best
- * = Electronics grade

Solubility Characteristics of Scripset Copolymer Resins

Scripset Resin	Solubility (1%) After 10 Minutes / After 5 Days							
	Water Based		Solvent Based					
	Alkali	Acid	Acetone	MEK	Ethyl Acetate	IPA	Toluene	Mineral Spirits
520	S / S	I / I	SL / S	SL / S	SL / SL	I / I	I / I	I / I
540	S / S	I / I	S / S	S / S	S / S	I / S	I / I	I / I
550/550E*	S / S	I / I	S / S	S / S	S / S	I / S	I / I	I / I

- S = Soluble
- SL = Slightly Soluble
- I = Insoluble
- * = Electronics grade