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DuPont™ Surlyn® Grade Comparison Chart

DuPont™ Surlyn® is available in a wide range of grades, each with a different balance of outstanding properties. DuPont tailors the properties of each grade by adjusting the acid content in the polymer, its molecular weight, the amount of neutralization and neutralization ion (zinc or sodium), and additive content.

This Selector Guide is designed to assist in matching Surlyn® grades with specific applications. The accompanying tables show the relative attributes and typical properties of the most commonly used Surlyn® grades. If your application requires a different type of Surlyn®, we encourage you to contact your DuPont marketing representative. We'll work with you to find the resin that best meets your needs.

Relative Properties of Selected Surlyn® Resin Grades

Surlyn® Product Grade/ Process	Hot Tack	Low Temp. Sealability	Oil Barrier	Low Temp. Toughness	Abrasion Resist.	Flex Crack Resist.	Stiffness	Adhesion to Foil Coex Nylon	Clarity
1601	●	◕	◕	◕	●	◕	◕	N/A	●
BF, CF	For blown film with superior optical properties.								
1605	●	●	●	◕	◕	▬	●	N/A	●
E/C, BF, CF	For extrusion coating and blown film; high grease resistance and low-temperature sealability.								
1650	◕	◕	▬	●	◕	◕	◕	◕	◕
BF, CF	For blown film coextrusion; good blend of toughness and low-temperature sealabilty.								
1652	▬	▬	▬	▬	▬	◕	▬	◕	◕
E/C, BF, CF	For general purpose extrusion coating; also blown film.								
1702	●	●	▬	▬	▬	◕	▬	●	●
E/C	For extrusion coating; excellent low-temperature sealability and hot tack.								
1705-1	●	●	▬	◕	▬	●	◕	●	●
BF, CF	For blown film; superior low-temperature sealability and toughness.								
1706	●	▬	◕	●	●	▬	●	▬	▬
BF	For blown film; high stiffness.								
1707	●	▬	●	●	●	▬	●	N/A	●
BF	For blown film; superior optical properties and grease resistance.								
1802	●	◕	●	◕	●	◕	◕	N/A	●
E/C, BF, CF	For extrusion coating and blown film; high grease resistance, higher melt index version of 1601.								
1857	●	●	▬	●	▬	●	▬	●	●
E/C, BF, CF	Terionomer for blown film and extrusion coating; superior low-temperature sealability and adhesion to nylon in coextrusion.								
1901	●	◕	▬	●	▬	●	▬	N/A	●
BF, CF	For blown film; terionomer version of 1601 for lower temperature sealing.								
2601	●	◕	◕	◕	●	◕	◕	N/A	●
BF, CF	For blown film; lower seal temperature than 1601, higher stiffness than 1901.								

LEGEND:
Performance Codes: ● = Outstanding; ◕ = Very Good; ▬ = Good; N/A - Does not apply
Process Codes: BF = Blown Film; CF = Cast Film; E/C = Extrusion Coating

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