



SR50

Product Information

● **Product Description**

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications. SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● **Typical Properties**

| Property | Unit | Value | | | | | | | | | Test Method | |
|-------------------------|--------------------|---------|----------|----------|----------|-----------|-----------|-----------|-----------|------------|-----------------------|-----------------------------|
| General | | | | | | | | | | | | |
| Nominal Thickness | Gauge (μm) | 92 (23) | 142 (36) | 200 (50) | 300 (75) | 400 (100) | 500 (125) | 700 (175) | 750 (190) | 1000 (250) | SKC Method | |
| Mechanical | | | | | | | | | | | | |
| Tensile Strength | Kpsi | MD | 33.0 | 32.0 | 30.5 | 28.5 | 27.5 | 27.0 | 25.0 | 23.0 | 21.0 | ASTM D882 |
| | | TD | 37.0 | 35.5 | 33.0 | 31.5 | 30.0 | 29.0 | 27.0 | 26.0 | 23.0 | |
| Elongation At Break | % | MD | 145 | 140 | 140 | 160 | 170 | 175 | 220 | 245 | 260 | ASTM D882 |
| | | TD | 120 | 115 | 115 | 120 | 125 | 130 | 150 | 165 | 170 | |
| Tear Strength | kg/mm ² | MD | | | | 6.0 | | | | | | ASTM D1996 |
| | | TD | | | | 7.0 | | | | | | |
| Surface | | | | | | | | | | | | |
| Coefficient of Friction | μk (Kinetic) | 0.35 | 0.35 | 0.35 | 0.36 | 0.36 | 0.36 | 0.37 | 0.37 | 0.29 | ASTM D1894 | |
| | μs (Static) | 0.40 | 0.40 | 0.40 | 0.41 | 0.41 | 0.41 | 0.42 | 0.42 | 0.39 | | |
| Surface Tension | Dyne | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | 45 | ASTM D2578 | |
| Optical | | | | | | | | | | | | |
| Haze | % | 11 | 15 | 18 | 24 | 28 | 32 | 43 | 46 | 58 | ASTM D1003 | |
| Light Transmission | % | 89.1 | 88.4 | 87.9 | 87.3 | 86.9 | 86.4 | 84.8 | 83.8 | 82.0 | ASTM D1003 | |
| Gloss | % | 115.0 | 112.5 | 112.0 | 111.0 | 111.0 | 110.5 | 110.0 | 108.0 | 105.0 | ASTM D523 | |
| Electrical | | | | | | | | | | | | |
| Dielectric Strength | kV | 6 | 9 | 11 | 13 | 15 | 17 | 20 | 20 | 23 | ASTM D149 (60 Hz, AC) | |
| | % | | | | | | | | | | ASTM D 1003 | |
| Thermal | | | | | | | | | | | | |
| Heat Shrinkage | % | MD | 1.7 | 1.7 | 1.5 | 1.2 | 1.1 | 1.1 | 1.0 | 1.0 | 1.0 | SKC Method (150°Cx30 min) |
| | | TD | 0.7 | 0.9 | 0.8 | 0.7 | 0.7 | 0.7 | 0.5 | 0.5 | 0.5 | |
| | | | MD | | | | | | | | 2.0 | SKC Method (190°Cx20 min) |
| | | | TD | | | | | | | | 0.7 | |

* Unit Correlation : N/mm² = Kg/mm² x 9.8
Kg/mm² = Kpi / 1.4223



SR50 (92ga)

Product Information

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SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

Unit Correlation : $N/mm^2 = \frac{Kg}{mm^2} \times 9.8$

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ASTM D 1003

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 92 (23) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 33,000 (23) 37,000 (26) | ASTM D 882 |
| Elongation At Break | % MD TD | 145 120 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.35 0.40 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 11 | ASTM D 1003 |
| Light Transmission | % | 89.1 | ASTM D 1003 |
| Gloss | % | 115 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV % | 6 | ASTM D149 (60 Hz, AC) ASTM D 1003 |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.7 0.7 | SKC Method (150°Cx30 min) |

Unit Correlation : $N/mm^2 = Kg/mm^2 \times 9.8$
 $Kg/mm^2 = psi / 1422.3$

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This Information is the best currently available on the subject. The results should, however, only be regarded as a general guide to material properties and not as a guarantee. Some of the properties can be changed as a result of supplier's efforts to improve the quality or production efficiency of the subject. Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.



SR50 (142ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 142 (36) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 32,000 (22) 35,500 (25) | ASTM D 882 |
| Elongation At Break | % MD TD | 140 115 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.35 0.40 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 15 | ASTM D 1003 |
| Light Transmission | % | 88.4 | ASTM D 1003 |
| Gloss | % | 112.5 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 9 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.7 0.9 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SR50 (200ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 200 (50) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 30,500 (21) 33,000 (23) | ASTM D 882 |
| Elongation At Break | % MD TD | 140 115 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.35 0.40 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 18 | ASTM D 1003 |
| Light Transmission | % | 87.9 | ASTM D 1003 |
| Gloss | % | 112 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 11 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.5 0.8 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.



SR50 (300ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 300 (75) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 28,500 (20) 31,500 (22) | ASTM D 882 |
| Elongation At Break | % MD TD | 160 120 | ASTM D 882 |
| Tear Strength | Kg/mm ² MD TD | 6.0 7.0 | ASTM D1996 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.36 0.41 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 24 | ASTM D 1003 |
| Light Transmission | % | 87.3 | ASTM D 1003 |
| Gloss | % | 111 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 13 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.2 0.7 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SR50 (400ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 400 (100) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 27,500 (19) 30,000 (21) | ASTM D 882 |
| Elongation At Break | % MD TD | 170 125 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.36 0.41 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 28 | ASTM D 1003 |
| Light Transmission | % | 87.3 | ASTM D 1003 |
| Gloss | % | 111 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 15 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.1 0.7 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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Note: Please read the Material Safety Data Sheet(MSDS) carefully prior to use.



SR50 (500ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 500 (125) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 27,000 (19) 29,000 (20) | ASTM D 882 |
| Elongation At Break | % MD TD | 175 130 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.36 0.41 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 32 | ASTM D 1003 |
| Light Transmission | % | 86.4 | ASTM D 1003 |
| Gloss | % | 110.5 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 17 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.1 0.7 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SR50 (700ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 700 (175) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 25,000 (18) 27,000 (19) | ASTM D 882 |
| Elongation At Break | % MD TD | 220 150 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.37 0.42 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 43 | ASTM D 1003 |
| Light Transmission | % | 84.8 | ASTM D 1003 |
| Gloss | % | 110 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 20 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.0 0.5 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SR50 (750ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 750 (190) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 23,000 (16) 27,000 (18) | ASTM D 882 |
| Elongation At Break | % MD TD | 245 165 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.37 0.42 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 46 | ASTM D 1003 |
| Light Transmission | % | 83.8 | ASTM D 1003 |
| Gloss | % | 108 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 20 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD TD | 1.0 0.5 | SKC Method (150°Cx30 min) |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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SR50 (1000ga)

Product Information

● Product Description

Skyrol® SR50 is an untreated, rough-surface, and high haze polyester film with excellent dielectric strength. SR50 is available in a wide range of thickness from 92ga to 1000ga and is extensively used for cable wrapping, electrical motor insulation and other general purpose applications.

SR50 film is FDA approved for direct food contact in compliance with FDA 21 CFR 177.1630 (f,g,h).

● Typical Properties

| Property | Unit | Value | Test Method |
|-------------------------|------------------------------------|-----------------------------|--------------------------------|
| General | | | |
| Nominal Thickness | (Gauge) µm | 1000 (250) | SKC Method |
| Mechanical | | | |
| Tensile Strength | psi MD (Kg/mm ²) TD | 21,000 (15) 23,000 (18) | ASTM D 882 |
| Elongation At Break | % MD TD | 260 170 | ASTM D 882 |
| Surface | | | |
| Coefficient of Friction | µk (Kinetic) µs (Static) | 0.29 0.39 | ASTM D1894 |
| Surface Tension | Dyne | 45 | ASTM D 2578 |
| Optical | | | |
| Haze | % | 58 | ASTM D 1003 |
| Light Transmission | % | 82 | ASTM D 1003 |
| Gloss | % | 105 | ASTM D 523 |
| Electrical | | | |
| Dielectric Strength | kV | 23 | ASTM D149 (60 Hz, AC) |
| Thermal | | | |
| Heat Shrinkage | % MD | 1.0 | SKC Method (150°Cx30 min) |
| | | TD | |
| | MD | 2.0 | SKC Method (190°Cx20 min) |
| | | TD | |

Unit Correlation : N/mm² = Kg/mm² × 9.8
Kg/mm² = psi / 1422.3

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