

ExxonMobil™ SC6LL Series

(Legacy name: ExxonMobil™ NTX Series)

C6 Linear Low Density Polyethylene

Product Description

ExxonMobil™ SC6LL Super Strength Series are ethylene 1-hexene linear low density polyethylene resins designed for applications requiring exceptional strength, especially tear, for maximum downgauging potential. ExxonMobil™ SC6LL resins are formulated with slip and antiblock, both with and without processing aid, for use in all high performance film applications.

General

| | |
|---------------------------|---|
| Availability ¹ | <ul style="list-style-type: none"> Latin America North America |
| Additive | <ul style="list-style-type: none"> ExxonMobil™ SC6LL 0917.41: Antiblock: 6500 ppm; Slip: 1400 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes ExxonMobil™ SC6LL 0917.95: Antiblock: 8000 ppm; Slip: 1400 ppm; Processing Aid: No; Thermal Stabilizer: Yes |
| Applications | <ul style="list-style-type: none"> General Packaging Ice Bags Trash Bags Trash Can Liners |
| Form(s) | <ul style="list-style-type: none"> Pellets |
| Revision Date | <ul style="list-style-type: none"> 10/01/2019 |

Resin Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density | 0.917 g/cm ³ | 0.917 g/cm ³ | ASTM D1505 |
| Melt Index (190°C/2.16 kg) | 0.90 g/10 min | 0.90 g/10 min | ASTM D1238 |
| Peak Melting Temperature | 255 °F | 124 °C | ExxonMobil Method |

Film Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield MD | 1200 psi | 8.6 MPa | ASTM D882 |
| Tensile Strength at Yield TD | 1200 psi | 8.6 MPa | ASTM D882 |
| Tensile Strength at Break MD | 8100 psi | 60 MPa | ASTM D882 |
| Tensile Strength at Break TD | 6800 psi | 47 MPa | ASTM D882 |
| Elongation at Break MD | 550 % | 550 % | ASTM D882 |
| Elongation at Break TD | 710 % | 710 % | ASTM D882 |
| Secant Modulus MD - 1% Secant | 23000 psi | 160 MPa | ASTM D882 |
| Secant Modulus TD - 1% Secant | 24000 psi | 170 MPa | ASTM D882 |
| Dart Drop Impact | 580 g | 580 g | ASTM D1709A |
| Elmendorf Tear Strength MD | 390 g | 390 g | ASTM D1922 |
| Elmendorf Tear Strength TD | 410 g | 410 g | ASTM D1922 |
| Puncture Force | 8 lbf | 36 N | ExxonMobil Method |
| Puncture Energy | 22 in-lb | 2.5 J | ExxonMobil Method |

Optical Properties

| | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 33 | 33 | ASTM D2457 |
| Haze | 25 % | 25 % | ASTM D1003 |

Legal Statement

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Film (1 mil/25.4 micron) made from ExxonMobil™ SC6LL 0917.41 resin on a 3.5 in (88.9 mm) blown film line with a 2.5:1 blow-up ratio, a melt temperature of 445°F (229°C), a 90 mil (2.3 mm) die gap at a rate of 10 lbs/hr/in die circumference (1.79 kg/hr/cm).

Notes

Typical properties: these are not to be construed as specifications.

¹ Product may not be available in one or more countries in the identified Availability regions. Please contact your Sales Representative for complete Country Availability.

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For additional technical, sales and order assistance: [Contact Us](#)

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