

Technical Data Sheet

| Exceed™ 1018.RA mLLDPE

Description

Exceed™ m 1018.RA is an ethylene 1-hexene copolymer resin. Films that incorporate Exceed™ m 1018.RA can enable outstanding tensile, impact strength and puncture performance. These superior strength properties, along with excellent drawability, can support downgauging in film applications. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ m 1018.RA.

Technical Specification

Antiblock: No Slip: No Thermal Stabilizer: Yes Alternative Processing Aid: Yes

Properties	Typical value	Test method
Density	0.918g/cm ³	ASTM D792
Melt index	1.0g/10min (190℃/2.16kg)	ASTM D1238
Peak melting temperature	118℃	ExxonMobil method
Tensile strength at yield MD	8.7 Mpa	ASTM D882
Tensile strength at yield TD	8.8 Mpa	ASTM D882
Tensile strength at break MD	60 Mpa	ASTM D882
Tensile strength at break TD	60 Mpa	ASTM D882
Elongation at break MD	500%	ASTM D882
Elongation at break TD	640%	ASTM D882
Secant modulus MD - 1% secant	170 Mpa	ASTM D882
Secant modulus TD - 1% secant	180 Mpa	ASTM D882
Dart drop impact	550g	ASTM D1709A
Elmendorf tear strength MD	220g	ASTM D1922
Elmendorf tear strength TD	370g	ASTM D1922
Puncture force	59N	ExxonMobil method

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Puncture energy	5.5J	ExxonMobil method
Gloss (45°C)	43	ASTM D2457
Haze	16%	ASTM D1003

Applications

Agricultural Film, Form Fill And Seal Packaging, Overwrap Film, Bag in Box, Freezer Film, Packaging Films, Barrier Food Packaging, General Packaging, Premium Trash Bags, Blown Film, Heavy Duty Bags, Stand Up Pouches, Blown Stretch Film, Industrial Packaging, Trash Bags, Bread Bags, Lamination Film, Trash Can Liners, Food Packaging, Multilayer Packaging Film.

Processing Statement

Film (1 mil/25.4 micron) made on a 2.5 inch (63.5 mm) blown film line with a 2.5:1 blow-up ratio.

A melt temperature of 403°F (206°C).

A 60 mill (1.52 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.

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