

Technical Data Sheet

| Exceed™ m 2018.RB Metallocene Polyethylene

Description

Exceed™ m 2018.RA is an ethylene 1-hexene copolymer resin. Films that incorporate Exceed™ m 2018.RB can enable outstanding tensile, impact strength and puncture performance. These superior strength properties, along with excellent drawability, highlight a very versatile packaging film resin. The higher melt index also makes this polymer resin suitable for blending into LDPE rich films. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Exceed™ m 2018.RB.

Technical Specification

Antiblock: 2500ppm Slip: 800ppm Alternative Processing Aid: Yes Thermal Stabilizer: Yes

Properties	Typical value	Test method
Density	0.918g/cm ³	ASTM D792
Melt index	2.0g/10min (190°C/2.16kg)	ASTM D1238
Peak melting temperature	118°C	ExxonMobil method
Tensile strength at yield MD	9.0 Mpa	ASTM D882
Tensile strength at yield TD	9.3 Mpa	ASTM D882
Tensile strength at break MD	50 Mpa	ASTM D882
Tensile strength at break TD	42 Mpa	ASTM D882
Elongation at break MD	560%	ASTM D882
Elongation at break TD	620%	ASTM D882
Secant modulus MD - 1% secant	180 Mpa	ASTM D882
Secant modulus TD - 1% secant	180 Mpa	ASTM D882
Dart drop impact	500g	ASTM D1709A
Elmendorf tear strength MD	330g	ASTM D1922
Elmendorf tear strength TD	490g	ASTM D1922

Puncture force	35N	ExxonMobil method
Puncture energy	1.9J	ExxonMobil method
Gloss (45°C)	50	ASTM D2457
Haze	14%	ASTM D1003

Applications

Agricultural Film, Bag in Box, Form Fill And Seal Packaging, Overwrap Film, Barrier Food Packaging, Freezer Film, Packaging Films, Blown Film, General Packaging, Premium Trash Bags, Blown Stretch Film, Heavy Duty Bags, Stand Up Pouches, Bread Bags, Lamination Film, Trash Bags, 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 400-420°F (204-216°C).

A 60 mil (1.52 mm) die gap at a rate of 9 lbs/hr/in die circumference (1.61 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.