

Technical Data Sheet

| Exceed™ Tough+ m 0814 Series mPE

Description

Exceed™ Tough+ m 0814 is an extreme Performance ethylene 1-hexene copolymer that offers step-out toughness and easy processing for a range of blown film applications. The combination of high toughness, easy processing and excellent sealing performance make this a very versatile packaging film resin. TnPP is not intentionally added to Exceed™ Tough+ m 0814. Exceed™ Tough+ m 0814- when extreme Performance matters..

Technical Specification

Exceed™ Tough+ m 0814.ML: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes

Exceed™ Tough+ m 0814.MK: Antiblock: 5000 ppm; Slip: 1000 ppm; Processing Aid: Yes; Thermal Stabilizer: Yes

Properties	Typical value	Test method
Density	0.914g/cm ³	ASTM D792
Melt index	0.8g/10min (190℃/2.16kg)	ASTM D1238
Peak melting temperature	121℃	ExxonMobil method
Tensile strength at yield MD	8.6 Mpa	ASTM D882
Tensile strength at yield TD	9.4 Mpa	ASTM D882
Tensile strength at break MD	60 Mpa	ASTM D882
Tensile strength at break TD	50 Mpa	ASTM D882
Elongation at break MD	330%	ASTM D882
Elongation at break TD	620%	ASTM D882
Secant modulus MD - 1% secant	170 Mpa	ASTM D882
Secant modulus TD - 1% secant	210 Mpa	ASTM D882
Dart drop impact	910g	ASTM D1709A
Elmendorf tear strength MD	310g	ASTM D1922

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Elmendorf tear strength TD	460g	ASTM D1922
Puncture force	55N	ExxonMobil method
Puncture energy	4.2J	ExxonMobil method
Gloss (45°C)	34	ASTM D2457
Haze	20%	ASTM D1003

Applications

Barrier film, freezer film, laminated snacks, liquid packaging, sachet.

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 390-410°F (199-210°C).

A 90 mill (2.29 mm) die gap at a rate of 15 lbs/hr/in die circumference (2.68 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.