

Technical Data Sheet

| Enable™ 3505RA Performance Polymer

Description

Enable™ 3505RA is a medium density ethylene 1-hexene copolymer resin. Enable™ performance polymer resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Easier processing and excellent properties lead to significant high pressure LDPE replacement in many applications, yet with superior drawdown and enhanced toughness. Fluoropolymers, or fluorine-containing compounds, and TNPP are not intentionally added to Enable™ 3505RA.

Technical Specification

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

Properties	Typical value	Test method
Density	0.935g/cm ³	ASTM D792
Melt index	0.5g/10min (190°C/2.16kg)	ASTM D1238
Peak melting temperature	123°C	ExxonMobil method
Vicat softening temperature	119°C	
Tensile strength at yield MD	17 Mpa	ASTM D882
Tensile strength at yield TD	20 Mpa	ASTM D882
Tensile strength at break MD	60 Mpa	ASTM D882
Tensile strength at break TD	46 Mpa	ASTM D882
Elongation at break MD	550%	ASTM D882
Elongation at break TD	790%	ASTM D882
Secant modulus MD - 1% secant	430 Mpa	ASTM D882
Secant modulus TD - 1% secant	520 Mpa	ASTM D882
Dart drop impact	70g	ASTM D1709A
Elmendorf tear strength MD	20g	ASTM D1922

Elmendorf tear strength TD	610g	ASTM D1922
Puncture force	48N	ExxonMobil method
Puncture energy	2.3J	ExxonMobil method
Gloss (45°C)	40	ASTM D2457
Haze	14%	ASTM D1003

Applications

Food packaging, form fill and seal packaging, heavy duty bags, lamination film, multilayer packaging film, shrink film, stand up pouches.

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 380-400°F (193-204°C).

A 30 mil (0.76 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.