

Technical Data Sheet

| Enable™ 4002MC Performance Polymer

Description

Enable™ 4002MC is a medium density ethylene 1-hexene copolymer. Enable™ 4002MC pPE provides blown film with high stiffness and shrink along with good optical properties. Excellent bubble stability leads to high output capability in monolayer and coextruded films. TnPP is not intentionally added to Enable™ 4002MC.

Technical Specification

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

Properties	Typical value	Test method
Density	0.940g/cm ³	ASTM D792
Melt index	0.25g/10min (190°C/2.16kg)	ASTM D1238
Peak melting temperature	128°C	ExxonMobil method
Vicat softening temperature	115°C	
Tensile strength at yield MD	19 Mpa	ASTM D882
Tensile strength at yield TD	24 Mpa	ASTM D882
Tensile strength at break MD	70 Mpa	ASTM D882
Tensile strength at break TD	49 Mpa	ASTM D882
Elongation at break MD	490%	ASTM D882
Elongation at break TD	810%	ASTM D882
Secant modulus MD - 1% secant	540 Mpa	ASTM D882
Secant modulus TD - 1% secant	730 Mpa	ASTM D882
Dart drop impact	60g	ASTM D1709A
Elmendorf tear strength MD	10g	ASTM D1922
Elmendorf tear strength TD	600g	ASTM D1922
Puncture force	50N	ExxonMobil method

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Puncture energy	2.2J	ExxonMobil method
Gloss (45°C)	26	ASTM D2457
Haze	21%	ASTM D1003

Applications

Collation shrink, lamination film, multilayer packaging film, compression packaging.

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 425°F.

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.