Product Datasheet

ExxonMobil
Signature Polymers

Exceed™ Stiff+ m 0238.MC Blown

(Legacy name: Enable™ 4002MC Blown)

Metallocene Polyethylene

Product Description

Exceed™ Stiff+ m 0238.MC is a medium density ethylene 1-hexene copolymer. Exceed™ Stiff+ m 0238.MC metallocene polyethylene 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 Exceed™ Stiff+ m 0238.MC.

General

Availability [1]	▪ Africa & Middle East ▪ Asia Pacific	▪ Europe ▪ Latin America	▪ North America
Additive	▪ Exceed™ Stiff+ m 0238.MC: Antiblock: No; Slip: No; Processing Aid: Yes; Thermal Stabilizer: Yes		
Applications	▪ Collation Shrink ▪ Compression Packaging	▪ Lamination Film ▪ Multilayer Packaging Film	
Revision Date	▪ 05/22/2018		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density / Specific Gravity	0.938	g/cm³	0.938	g/cm³	ASTM D792
Melt Index (190°C/2.16 kg)	0.25	g/10 min	0.25	g/10 min	ASTM D1238
Peak Melting Temperature	262	°F	128	°C	ExxonMobil Method

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Yield MD	2800	psi	19	MPa	ASTM D882
Tensile Strength at Yield TD	3500	psi	24	MPa	ASTM D882
Tensile Strength at Break MD	9700	psi	70	MPa	ASTM D882
Tensile Strength at Break TD	7000	psi	49	MPa	ASTM D882
Elongation at Break MD	490	%	490	%	ASTM D882
Elongation at Break TD	810	%	810	%	ASTM D882
Secant Modulus MD - 1% Secant	78000	psi	540	MPa	ASTM D882
Secant Modulus TD - 1% Secant	110000	psi	730	MPa	ASTM D882
Dart Drop Impact	60	g	60	g	ASTM D1709
Elmendorf Tear Strength MD	10	g	10	g	ASTM D1922
Elmendorf Tear Strength TD	600	g	600	g	ASTM D1922
Puncture Force	11	lbf	50	N	ExxonMobil Method
Puncture Energy	19	in·lb	2.2	J	ExxonMobil Method

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	26		26		ASTM D2457
Haze	21	%	21	%	ASTM D1003

Legal Statement

Tris(nonylphenol)phosphite (TNPP) CAS# 26523-78-4 is not intentionally used by ExxonMobil in this product. Although this product is not routinely tested for its presence, based on product composition knowledge this substance is not expected to be present. However, the fact that this substance is not intentionally used by ExxonMobil in this product does not exclude that trace levels of this substance may be present as a result of the specific characteristics of the raw materials and/or of the manufacturing process.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

This product is not intended for use in medical applications and should not be used in any such applications.

Processing Statement

Film (1 mil/25.4 micron) made on a 2.5 inch blown film line equipped with 2.5:1 blow-up ratio, 30 mil die gap, 16 in frostline, 425°F melt temperature and 10 lbs/die in/hr.

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Notes

Typical properties: these are not to be construed as specifications.

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

For additional technical, sales and order assistance: www.exxonmobilchemical.com/ContactUs

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