ExxonMobil

Optema™ TC 110 Blown

Ethylene Methyl Acrylate Copolymer Resin

Product Description

OPTEMA TC 110 is an ethylene methyl acrylate copolymer specifically formulated to offer extrusion and property performance for blown film applications. It produces a soft, elastic film with good handling characteristics without additional additives. It can produce film under 1.0 mil thickness.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Disposable Gloves	▪ Hospital Drapes	▪ Upholstery Film
Revision Date	▪ 03/01/2010		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.942	g/cm³	0.942	g/cm³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	2.0	g/10 min	2.0	g/10 min	ASTM D1238
Methyl Acrylate Content	21.5	wt%	21.5	wt%	ExxonMobil Method
Peak Melting Temperature	176	°F	80	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	127	°F	53	°C	ASTM D1525

Film Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Tensile Strength at Break MD	2900	psi	20	MPa	ASTM D882
Tensile Strength at Break TD	3000	psi	21	MPa	ASTM D882
Elongation at Break MD	370	%	370	%	ASTM D882
Elongation at Break TD	650	%	650	%	ASTM D882
Secant Modulus MD - 1% Secant	6200	psi	43	MPa	ASTM D882
Secant Modulus TD - 1% Secant	5800	psi	40	MPa	ASTM D882
Dart Drop Impact	430	g	430	g	ASTM D1709A
Elmendorf Tear Strength MD	30	g	30	g	ASTM D1922
Elmendorf Tear Strength TD	320	g	320	g	ASTM D1922

Optical Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Gloss (45°)	34		34		ASTM D2457
Haze	16	%	16	%	ASTM D1003

Legal Statement

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

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

Processing Statement

Film (2 mil / 50.8 micron) made from TC 110 on a 2.5 inch blown film line having a 6 inch die with a 30 mil die gap at a 2.5:1 blow-up ratio and melt temperature of 310-311°F (154-155°C).

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.

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