ExxonMobil

Optema™ TC 220 ExCo

Ethylene Methyl Acrylate Copolymer Resin

Product Description

Optema TC 220 is an ethylene methyl acrylate copolymer, which can be used for making alloys, blends and compounds or be injection molded where softness and flexibility are required. It is also an excellent grade for coextrusion coating and extrusion lamination where good interlayer adhesion between polyethylene, polypropylene, nylon, PVdC or other substrates is required. Processing Conditions: Excellent results are obtained in extrusion coating at 260°C to 300°C (500°F - 572°F) temperature range. Processing temperatures above 320°C (608°F) are not recommended. Optema EMA can be processed on conventional extrusion equipment designed for extrusion coating LDPE. Their broad thermal stability range offer wide processing conditions window. Water cooling of extruder throat is preferred to avoid hopper bridging.

General

Availability [1]	▪ Latin America	▪ North America	
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: Yes
Applications	▪ Coextrusion Coating ▪ Demanding Heat Seals ▪ Extrusion Coating	▪ Extrusion Lamination ▪ Food Packaging ▪ Industrial Packaging	▪ Low Neck In, Low Line Speed Coatings ▪ Masterbatch Base Resin ▪ Thermal Lamination
Revision Date	▪ 01/01/2017		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.944	g/cm³	0.944	g/cm³	ASTM D1505
Melt Index (190°C/2.16 kg)	5.0	g/10 min	5.0	g/10 min	ASTM D1238
Methyl Acrylate Content	24.0	wt%	24.0	wt%	ExxonMobil Method
Peak Melting Temperature	164	°F	73	°C	ExxonMobil Method

Thermal	Typical Value (English)		Typical Value (SI)		Test Based On
Vicat Softening Temperature	114	°F	45	°C	ASTM D1525

Coating Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Neck-in					ExxonMobil Method
328 ft/min (100 m/min), Constant output at 35 rpm, 563°F (295°C)	5.5	in	14	cm	
656 ft/min (200 m/min), Constant output at 35 rpm, 563°F (295°C)	4.2	in	11	cm	

Legal Statement

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

Typical values obtained on a pilot coextrusion coating line at ExxonMobil Europe Technical Center at an air gap of 170 mm (6.69 in).

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

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