## **Ex<sub>x</sub>onMobil**

## 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			
Additive	<ul> <li>Antiblock: No</li> </ul>	<ul> <li>Slip: No</li> </ul>	<ul> <li>Thermal Stabilizer: Yes</li> </ul>
Applications	<ul><li>Coextrusion Coating</li><li>Demanding Heat Seals</li><li>Extrusion Coating</li></ul>	<ul><li>Extrusion Lamination</li><li>Food packaging</li><li>Industrial Packaging</li></ul>	<ul> <li>Low Neck In, Low Line Speed Coatings</li> <li>Masterbatch Base Resin</li> <li>Thermal Lamination</li> </ul>

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Resin Properties	Typical value	(English)	i ypical value	(SI)	Test Based On
Density	0.945	g/cm³	0.945	g/cm³	ExxonMobil Method
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	162	°F	72	°C	ExxonMobil Method
Thermal	Typical Value	(English)	Typical Value	(SI)	Test Based On
Vicat Softening Temperature	109	°F	43	°C	ASTM D1525
Coating Properties	Typical Value	(English)	Typical Value	(SI)	Test Based On
Draw Down					ExxonMobil
Constant output at 35 rpm, 563°F (295°C)	> 600	m/min	> 600	m/min	Method
Neck-in					ExxonMobil
328 ft/min (100 m/min), Constant output at 35 rpm, 563°F (295°C)	4.6	in	12	cm	Method
656 ft/min (200 m/min), Constant output at 35 rpm, 563°F (295°C)	4.0	in	10	cm	



