

# Escor™ 5050 ExCo

## Ethylene Acrylic Acid Copolymer Resin

### Product Description

Escor 5050 is primarily intended for extrusion coating, coextrusion coating and extrusion lamination. Outstanding adhesion to polar substrates, aluminum foil, metallized films, papers, iron, steel and glass.  
Offers excellent adhesion onto the substrates and good interlayer adhesion with coextruded LDPE and EVA's.  
Very good adhesive polymer in film.

### General

Availability <sup>1</sup>	• Africa & Middle East	• Asia Pacific	• Europe
Additive	• Antiblock: No	• Slip: No	• Thermal Stabilizer: No
Applications	• Aluminum Containing Packaging • Cable Shielding • Coextrusion Coating • Cosmetic Packaging	• Extrusion Coating • Extrusion Lamination • Food packaging • Hygiene Packaging	• Liquid Packaging • Metallized Films
Revision Date	• 6/2006		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.936 g/cm <sup>3</sup>	0.936 g/cm <sup>3</sup>	ExxonMobil Method
Melt Index (190°C/2.16 kg)	8.4 g/10 min	8.4 g/10 min	ASTM D1238
Acrylic Acid Content	9.0 wt%	9.0 wt%	ExxonMobil Method
Peak Melting Temperature	207 °F	97 °C	ExxonMobil Method

Thermal	Typical Value (English)	Typical Value (SI)	Test Based On
Vicat Softening Temperature	172 °F	78.0 °C	ASTM D1525

Coating Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Draw Down <sup>2</sup>	640 ft/min	195 m/min	ExxonMobil Method
Neck-in <sup>2</sup>			ExxonMobil Method
164 ft/min (50 m/min)	2.6 in	6.6 cm	
328 ft/min (100 m/min)	1.6 in	4.1 cm	

### Legal Statement

5050 ExCo can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical 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).

Excellent results are obtained in extrusion coating at 260°C to 280°C (500 - 536 °F) temperature range. Processing temperatures above 300°C (572 °F) may cause resin degradation.

To minimise corrosion risk, all exposed metal surfaces in the extruder and die should be made from corrosion resistant metals or nickel/chrome plated.

ESCOR should be fed into the extruder after LDPE of a similar or higher melt index. Machines should always be completely purged with LDPE or a suitable cleaning compound before shutdown.

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

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# ExxonMobil Chemical Escor™ 5050 ExCo Ethylene Acrylic Acid Copolymer Resin

## Notes

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

<sup>2</sup> Constant output at 35 rpm, 536°F (280°C)

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