

Escor™ 5100

Ethylene Acrylic Acid Copolymer Resin

Product Description

Escor 5100 is primarily intended for extrusion coating, coextrusion coating, extrusion lamination. Excellent adhesion to polar substrates, aluminum foil, polyamide films, metallized films, papers, iron, steel and glass. High bond resistance also when used to pack acidic food products. Excellent coextrusion adhesive resin for Polyamides. Outstanding sealing performances: very low temperature sealing with high seal strengths, high hot tack forces and good seal through contamination. Very good adhesive polymer in film.

General

Availability ¹	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Aluminum Containing Packaging ▪ Cable Shielding ▪ Coextrusion Coating	▪ Extrusion Coating ▪ Extrusion Lamination ▪ Food packaging	▪ Metallized Films
Revision Date	▪ 11/01/2013		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.940 g/cm ³	0.940 g/cm ³	ExxonMobil Method
Melt Index (190°C/2.16 kg)	8.5 g/10 min	8.5 g/10 min	ASTM D1238
Acrylic Acid Content	11.0 wt%	11.0 wt%	ExxonMobil Method
Peak Melting Temperature	203 °F	95 °C	ExxonMobil Method

Coating Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Draw Down			ExxonMobil Method
Constant output at 35 rpm, 536°F (280°C)	240 m/min	240 m/min	ExxonMobil Method
Neck-in			ExxonMobil Method
164 ft/min (50 m/min), Constant output at 35 rpm, 536°F (280°C)	2.6 in	6.6 cm	ExxonMobil Method
328 ft/min (100 m/min), Constant output at 35 rpm, 536°F (280°C)	1.7 in	4.3 cm	ExxonMobil Method

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). 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.

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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