Escor™ 5110

Ethylene Acrylic Acid Copolymer Resin

Product Description

Escor™ 5110 resin is primarily intended for high speed, low coating weight extrusion coating and extrusion lamination. Escor™ 5110 resin offers the following advantages: excellent adhesion to polar substrates, aluminum foil, polyamide films, metallized films, papers, iron, steel, and glass; high bond resistance when used to pack acidic food products; very low sealing and hot tack initiation temperature; very high hot tack peak force.

General

Availability [1]	▪ Africa & Middle East	▪ Asia Pacific	▪ Europe
Additive	▪ Antiblock: No	▪ Slip: No	▪ Thermal Stabilizer: No
Applications	▪ Aluminum Containing Packaging ▪ Coextrusion Coating	▪ Extrusion Coating ▪ Extrusion Lamination	▪ Food Packaging ▪ Metallized Films
Revision Date	▪ 07/01/2018		

Resin Properties	Typical Value (English)		Typical Value (SI)		Test Based On
Density	0.939	g/cm³	0.939	g/cm³	ASTM D1505
Melt Index [2] (190°C/2.16 kg)	14	g/10 min	14	g/10 min	ASTM D1238
Acrylic Acid Content	11.0	wt%	11.0	wt%	ExxonMobil Method
Peak Melting Temperature	202	°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)	460	m/min	460	m/min	
Neck-in					ExxonMobil Method
164 ft/min (50 m/min), Constant output at 35 rpm, 536°F (280°C)	7.0	in	18	cm	
328 ft/min (100 m/min), Constant output at 35 rpm, 536°F (280°C)	3.2	in	8.1	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). 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 minimize corrosion risk, all exposed metal surfaces in the extruder and die should be made from corrosion resistant metals or nickel/chrome plated. Escor™ resin 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.

[2] Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D 1238.

ExxonMobil

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

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