

Escor™ 5100

Ethylene Acrylic Acid Copolymer Resin

Product Description

Escor™ 5100 resin is primarily intended for extrusion coating, coextrusion coating, and extrusion lamination. Escor™ 5100 resin offers the following advantages: excellent adhesion to polar substrates, aluminum foil, metallized films, paper, iron, steel, and glass; high bond resistance when used to pack acidic food products; excellent coextrusion adhesive resin for polyamides; outstanding sealing performance; very low temperature sealing with high strength; and high hot tack forces and good seal through contamination.

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	▪ 07/01/2018		

Resin Properties	Typical Value (English)	Typical Value (SI)	Test Based On
Density	0.940 g/cm ³	0.940 g/cm ³	ASTM D1505
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	204 °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)	230 m/min	230 m/min	
Neck-in			ExxonMobil Method
82 ft/min (25 m/min), Constant output at 35 rpm, 536°F (280°C)	4.1 in	10 cm	
164 ft/min (50 m/min), Constant output at 35 rpm, 536°F (280°C)	2.1 in	5.3 cm	
328 ft/min (100 m/min), Constant output at 35 rpm, 536°F (280°C)	1.5 in	3.7 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.

Escor™ 5100
Ethylene Acrylic Acid Copolymer Resin

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

©2022 ExxonMobil. ExxonMobil, the ExxonMobil logo, the interlocking "X" device and other product or service names used herein are trademarks of ExxonMobil, unless indicated otherwise. This document may not be distributed, displayed, copied or altered without ExxonMobil's prior written authorization. To the extent ExxonMobil authorizes distributing, displaying and/or copying of this document, the user may do so only if the document is unaltered and complete, including all of its headers, footers, disclaimers and other information. You may not copy this document to or reproduce it in whole or in part on a website. ExxonMobil does not guarantee the typical (or other) values. Any data included herein is based upon analysis of representative samples and not the actual product shipped. The information in this document relates only to the named product or materials when not in combination with any other product or materials. We based the information on data believed to be reliable on the date compiled, but we do not represent, warrant, or otherwise guarantee, expressly or impliedly, the merchantability, fitness for a particular purpose, freedom from patent infringement, suitability, accuracy, reliability, or completeness of this information or the products, materials or processes described. The user is solely responsible for all determinations regarding any use of material or product and any process in its territories of interest. We expressly disclaim liability for any loss, damage or injury directly or indirectly suffered or incurred as a result of or related to anyone using or relying on any of the information in this document. This document is not an endorsement of any non-ExxonMobil product or process, and we expressly disclaim any contrary implication. The terms "we," "our," "ExxonMobil Product Solutions" and "ExxonMobil" are each used for convenience, and may include any one or more of ExxonMobil Product Solutions Company, Exxon Mobil Corporation, or any affiliate either directly or indirectly stewarded.

exxonmobilchemical.com