

# Escor™ 5020

## Ethylene Acrylic Acid Copolymer Resin

### Product Description

Escor™ 5020 resin is primarily intended for extrusion coating and coextrusion coating. It has very good adhesion to polar substrates, aluminum foil, metallized films, paper, iron, steel, and glass. It offers excellent balance of adhesion onto substrates and interlayer adhesion with coextruded LDPE and EVA material.

### General

|               |                                                                    |                                                                   |                                                           |
|---------------|--------------------------------------------------------------------|-------------------------------------------------------------------|-----------------------------------------------------------|
| Additive      | ▪ Antiblock: No                                                    | ▪ Slip: No                                                        | ▪ Thermal Stabilizer: No                                  |
| Applications  | ▪ Cable Shielding<br>▪ Coextrusion Coating<br>▪ Cosmetic Packaging | ▪ Extrusion Coating<br>▪ Extrusion Lamination<br>▪ Food Packaging | ▪ Hygiene Packaging<br>▪ Lami Tubes<br>▪ Liquid Packaging |
| Revision Date | ▪ 07/01/2018                                                       |                                                                   |                                                           |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.933 g/cm <sup>3</sup> | 0.933 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 8.3 g/10 min            | 8.3 g/10 min            | ASTM D1238        |
| Acrylic Acid Content       | 7.5 wt%                 | 7.5 wt%                 | ExxonMobil Method |
| Peak Melting Temperature   | 210 °F                  | 99 °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)                         | 160 m/min               | 160 m/min          |                   |
| Neck-in                                                          |                         |                    | ExxonMobil Method |
| 82 ft/min (25 m/min), Constant output at 35 rpm, 536°F (280°C)   | 2.4 in                  | 6.0 cm             |                   |
| 164 ft/min (50 m/min), Constant output at 35 rpm, 536°F (280°C)  | 1.5 in                  | 3.9 cm             |                   |
| 328 ft/min (100 m/min), Constant output at 35 rpm, 536°F (280°C) | 1.3 in                  | 3.2 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.

<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.