

# Escor™ 5080

## Ethylene Acrylic Acid Copolymer Resin

### Product Description

Escor™ 5080 resin is an ethylene acrylic acid copolymer characterized by high melt index and 10 wt% acrylic acid comonomer content. Escor™ 5080 resin easily combines processing and adhesion to polar materials. It can be formulated and UV-stabilized for use in outdoor applications.

### General

|                           |                                              |                                                                  |                          |
|---------------------------|----------------------------------------------|------------------------------------------------------------------|--------------------------|
| Availability <sup>1</sup> | ▪ Africa & Middle East                       | ▪ Asia Pacific                                                   | ▪ Europe                 |
| Additive                  | ▪ Antiblock: No                              | ▪ Slip: No                                                       | ▪ Thermal Stabilizer: No |
| Applications              | ▪ Adhesive Applications<br>▪ Heat Seal Layer | ▪ Masterbatch Base Resin<br>▪ Powder Coating to Polar Substrates |                          |
| Revision Date             | ▪ 07/01/2018                                 |                                                                  |                          |

| Resin Properties                        | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|-----------------------------------------|-------------------------|-------------------------|-------------------|
| Density                                 | 0.937 g/cm <sup>3</sup> | 0.937 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index <sup>2</sup> (190°C/2.16 kg) | 30 g/10 min             | 30 g/10 min             | ASTM D1238        |
| Acrylic Acid Content                    | 10 wt%                  | 10 wt%                  | ExxonMobil Method |
| Peak Melting Temperature                | 203 °F                  | 95 °C                   | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 161 °F                  | 71 °C              | ASTM D1525    |

### 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

Molded properties were measured on 2 mm (78.7 mil) thick compression molded plaques prepared based on ASTM D4703 Procedure C (Tensile ASTM D638 : Type IV dumbbell, Hardness ASTM D2240 : 3 plied up disks) and 2 plied up 2 mm (157 mil) for Vicat. 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 preferably with a lower melt flow than the Escor™ grade in use or a suitable cleaning compound before shutdown. Never shutdown the equipment with Escor™ resin.

### 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.

<sup>2</sup> Value reported is an estimate based on ExxonMobil's correlation from melt flow rate data measured at other standard conditions, based on ASTM D1238.

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For additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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