

Escorene™ Ultra FL 02020

Ethylene Vinyl Acetate Copolymer Resin

Product Description

FL 02020 is primarily designed for high speed/low coating weight extrusion coating and is a good coextrusion partner with other polymers. FL 02020 is an excellent sealing material with a very low seal initiation temperature, high clarity, and low gel. Excellent results are obtained in extrusion coating at 220°C (428°F) temperature range. Processing temperatures above 240°C (464°F) may cause resin degradation. FL 02020 should be fed into the extruder after LDPE of a similar or higher melt index. Machines should always be purged with LDPE or a suitable cleaning compound before shutdown.

General

| | | | |
|---------------------------|--|--|---|
| Availability ¹ | ▪ Africa & Middle East | ▪ Asia Pacific | ▪ Europe |
| Additive | ▪ Antiblock: No | ▪ Slip: No | ▪ Thermal Stabilizer: Yes |
| Applications | ▪ Adhesive Lamination ▪ Adhesive Layer onto OPP ▪ Barrier Food Packaging ▪ Cling Layer ▪ Coextrusion Coating ▪ Compounding ▪ Document Plastification | ▪ Extrusion Coating ▪ Extrusion Lamination ▪ Flexible Packaging ▪ High Frequency Sealing ▪ Industrial Packaging ▪ Injection Molding ▪ Masterbatch Base Resin | ▪ Non-Woven Coating ▪ PVC Replacement ▪ Surface Protection Film ▪ Thermal Lamination ▪ Wire and Cable Compounds |
| Revision Date | ▪ 01/01/2018 | | |

| 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 ² (190°C/2.16 kg) | 20 g/10 min | 20 g/10 min | ASTM D1238 |
| Vinyl Acetate Content | 20.0 wt% | 20.0 wt% | ExxonMobil Method |
| Peak Melting Temperature | 177 °F | 80 °C | ExxonMobil Method |

| Thermal | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 118 °F | 48 °C | ASTM D1525 |

| Molded Properties | Typical Value (English) | Typical Value (SI) | Test Based On |
|---|-------------------------|--------------------|---------------|
| Tensile Modulus (0.20 in/min (5.0 mm/min)) | 4500 psi | 31 MPa | ASTM D638 |
| Tensile Strength at Break 20 in/min (500 mm/min) | 1200 psi | 8.2 MPa | ASTM D638 |
| Elongation at Break (20 in/min (500 mm/min)) | 830 % | 830 % | ASTM D638 |
| Durometer Hardness | | | ASTM D2240 |
| Shore A, 15 sec | 87 | 87 | |
| Shore D, 15 sec | 29 | 29 | |

Legal Statement

This product is not intended for use in medical applications and should not be used in any such applications.

Contact your ExxonMobil Chemical Customer Service Representative for potential food contact application compliance (e.g. FDA, EU, HPFB).

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 4 mm (157 mil) for VICAT.

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 D1238.

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