

# ExxonMobil™ EVA 02804.BW

## Ethylene Vinyl Acetate Copolymer

### Product Description

ExxonMobil™ EVA 02804.BW is an EVA LDPE which offers a combination of excellent sealability and toughness even at low temperatures.

### General

|                           |   |
|---------------------------|---|
| Availability <sup>1</sup> | ▪ Europe  |
| Additive                  | ▪ ExxonMobil™ EVA 02804.BW: Antiblock: No; Slip: No; Thermal Stabilizer: Yes  |
| Applications              | <ul style="list-style-type: none"> <li>▪ Agricultural Film</li> <li>▪ Co-Extrusion Films</li> <li>▪ Construction Film</li> <li>▪ Foams</li> <li>▪ Form Fill And Seal Packaging</li> <li>▪ Freezer Film</li> <li>▪ Heavy Duty Bags</li> <li>▪ Ice Bags</li> <li>▪ Profile Extrusion</li> </ul> |
| Revision Date             | ▪ 07/01/2013  |

### Resin Properties

|   | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|---|-------------------------|-------------------------|-------------------|
| Density                                 | 0.926 g/cm <sup>3</sup> | 0.926 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index <sup>2</sup> (190°C/2.16 kg) | 0.28 g/10 min           | 0.28 g/10 min           | ASTM D1238        |
| Vinyl Acetate Content                   | 4.0 wt%                 | 4.0 wt%                 | ExxonMobil Method |
| Peak Melting Temperature                | 220 °F                  | 104 °C                  | ExxonMobil Method |

### Film Properties

|                               | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------------------------|-------------------------|--------------------|---------------|
| Tensile Strength at Yield MD  | 1700 psi                | 12 MPa             | ASTM D882     |
| Tensile Strength at Yield TD  | 1400 psi                | 9.7 MPa            | ASTM D882     |
| Tensile Strength at Break MD  | 3800 psi                | 26 MPa             | ASTM D882     |
| Tensile Strength at Break TD  | 3400 psi                | 24 MPa             | ASTM D882     |
| Elongation at Break MD        | 390 %                   | 390 %              | ASTM D882     |
| Elongation at Break TD        | 550 %                   | 550 %              | ASTM D882     |
| Secant Modulus MD - 1% Secant | 25000 psi               | 170 MPa            | ASTM D882     |
| Secant Modulus TD - 1% Secant | 30000 psi               | 200 MPa            | ASTM D882     |
| Dart Drop Impact              | 560 g                   | 560 g              | ASTM D1709A   |
| Elmendorf Tear Strength MD    | 200 g                   | 200 g              | ASTM D1922    |
| Elmendorf Tear Strength TD    | 280 g                   | 280 g              | ASTM D1922    |

### Optical Properties

|             | Typical Value (English) | Typical Value (SI) | Test Based On |
|-------------|-------------------------|--------------------|---------------|
| Gloss (45°) | 47                      | 47                 | ASTM D2457    |
| Haze        | 12 %                    | 12 %               | ASTM D1003    |

### 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

The test specimens were prepared on ExxonMobil™ EVA 02804.BW, 100 µm (3.94 mil) thick film, using a 200 mm (7.87 in) die, die gap of 1.0 mm (39.4 mil), Blow-Up Ratio of 2.0 and temperature profile of 145 - 190°C (293 - 374 °F).

### 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 D 1238.

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