

# ExxonMobil Enable™ 27-05HH Metallocene Polyethylene Resin (European Grade)

Category : Polymer , Thermoplastic , Polyethylene (PE)

Material Notes:

Product Description: Enable 27-05HH is a metallocene ethylene-hexene copolymers. Enable mPE resins offer an outstanding balance between processing and film properties, including tensile, impact and puncture. Easier processing and excellent properties lead to significant high pressure LDPE replacement in many applications, yet with superior drawdown and enhanced toughness. Availability: Africa & Middle East, Asia Pacific and EuropeAdditive:Antiblock: NoSlip: NoProcessing Aid: YesThermal Stabilizer: YesApplications:Blown FilmCollation ShrinkFood packagingForm Fill and Seal PackagingHeavy Duty BagsLamination FilmMultilayer Packaging FilmShrink FilmStand Up Pouches Information provided by ExxonMobil

Order this product through the following link:  
[http://www.lookpolymers.com/polymer\\_ExxonMobil-Enable-27-05HH-Metallocene-Polyethylene-Resin-European-Grade.php](http://www.lookpolymers.com/polymer_ExxonMobil-Enable-27-05HH-Metallocene-Polyethylene-Resin-European-Grade.php)

| Physical Properties | Metric                            | English                           | Comments          |
|---------------------|-----------------------------------|-----------------------------------|-------------------|
| Density             | 0.927 g/cc                        | 0.0335 lb/in³                     | ExxonMobil method |
| Melt Flow           | 0.50 g/10 min                     | 0.50 g/10 min                     | ASTM D1238        |
|                     | @Load 2.16 kg, Temperature 190 °C | @Load 4.76 lb, Temperature 374 °F |                   |

| Mechanical Properties              | Metric   | English   | Comments   |
|------------------------------------|----------|-----------|------------|
| Film Tensile Strength at Yield, MD | 13.1 MPa | 1900 psi  | ASTM D882  |
| Film Tensile Strength at Yield, TD | 14.5 MPa | 2100 psi  | ASTM D882  |
| Film Elongation at Break, MD       | 520 %    | 520 %     | ASTM D882  |
| Film Elongation at Break, TD       | 770 %    | 770 %     | ASTM D882  |
| Elmendorf Tear Strength MD         | 50 g     | 50 g      | ASTM D1922 |
| Elmendorf Tear Strength TD         | 730 g    | 730 g     | ASTM D1922 |
| Dart Drop Test                     | 130 g    | 0.287 lb  | ASTM D1709 |
| Film Tensile Strength at Break, MD | 58.6 MPa | 8500 psi  | ASTM D882  |
| Film Tensile Strength at Break, TD | 50.3 MPa | 7300 psi  | ASTM D882  |
| 1% Secant Modulus, MD              | 296 MPa  | 43000 psi | ASTM D882  |
| 1% Secant Modulus, TD              | 352 MPa  | 51000 psi | ASTM D882  |

| Thermal Properties | Metric | English | Comments |
|--------------------|--------|---------|----------|
|                    |        |         |          |

| Melting Point<br>Thermal Properties | <= 246 °C<br>Metric | <= 475 °F<br>English | Peak Melting Point; ExxonMobil<br>Method |
|-------------------------------------|---------------------|----------------------|------------------------------------------|
|-------------------------------------|---------------------|----------------------|------------------------------------------|

| Optical Properties | Metric | English | Comments        |
|--------------------|--------|---------|-----------------|
| Haze               | 11 %   | 11 %    | ASTM D1003      |
| Gloss              | 49 %   | 49 %    | 45°; ASTM D2457 |

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