

## Product Datasheet



# ExxonMobil™ LDPE LD 506.07

## Low Density Polyethylene Resin

### Product Description

ExxonMobil™ LD 506.07 resin is a high flow LDPE homopolymer designed to provide good processability. It is suitable for use in making color concentrates and injection molded articles.

### General

|                           |                 |                             |                           |
|---------------------------|-----------------|-----------------------------|---------------------------|
| Availability <sup>1</sup> | ▪ Latin America | ▪ North America             |                           |
| Additive                  | ▪ Antiblock: No | ▪ Slip: No                  | ▪ Thermal Stabilizer: Yes |
| Applications              | ▪ Caps          | ▪ Food Packaging Containers | ▪ Masterbatch Base Resin  |
|                           | ▪ Closures      | ▪ Houseware Articles        |                           |
|                           | ▪ Compounding   | ▪ Injection Molding         |                           |
| Form(s)                   | ▪ Pellets       |                             |                           |
| Revision Date             | ▪ 06/17/2020    |                             |                           |

| Resin Properties           | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|----------------------------|-------------------------|-------------------------|-------------------|
| Density                    | 0.921 g/cm <sup>3</sup> | 0.921 g/cm <sup>3</sup> | ASTM D1505        |
| Melt Index (190°C/2.16 kg) | 33 g/10 min             | 33 g/10 min             | ASTM D1238        |
| Peak Melting Temperature   | 230 °F                  | 110 °C                  | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On     |
|-----------------------------|-------------------------|--------------------|-------------------|
| Vicat Softening Temperature | 194 °F                  | 90.0 °C            | ExxonMobil Method |

| Molded Properties            | Typical Value (English) | Typical Value (SI) | Test Based On     |
|------------------------------|-------------------------|--------------------|-------------------|
| Tensile Strength at Yield    | 1900 psi                | 13 MPa             | ExxonMobil Method |
| Tensile Strength at Break    | 1400 psi                | 9.6 MPa            | ExxonMobil Method |
| Elongation at Yield          | 50 %                    | 50 %               | ExxonMobil Method |
| Elongation at Break          | 94 %                    | 94 %               | ExxonMobil Method |
| Flexural Modulus - 1% Secant | 35000 psi               | 240 MPa            | ExxonMobil Method |
| Durometer Hardness           |                         |                    | ExxonMobil Method |
| Shore A, 15 sec              | 91                      | 91                 |                   |
| Shore D, 15 sec              | 47                      | 47                 |                   |

| Impact                   | Typical Value (English) | Typical Value (SI) | Test Based On     |
|--------------------------|-------------------------|--------------------|-------------------|
| Instrumented Dart Impact |                         |                    | ExxonMobil Method |
| -40°F (-40°C)            | 6.3 ft-lb               | 8.5 J              |                   |
| 73°F (23°C)              | 12 ft-lb                | 16 J               |                   |

### 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

All physical properties were measured on compression molded specimens.

### 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.

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**ExxonMobil****ExxonMobil™ LDPE LD 506.07**  
Low Density Polyethylene ResinFor additional technical, sales and order assistance: [www.exxonmobilchemical.com/ContactUs](http://www.exxonmobilchemical.com/ContactUs)

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