

# ExxonMobil™ LDPE LD 653

## Low Density Polyethylene Resin

### Product Description

LD 653 is an easy flowing LDPE grade with medium stiffness and good toughness.

### General

|                           |                                       |                                                                            |                                                                    |
|---------------------------|---------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------------------------|
| Availability <sup>1</sup> | • Africa & Middle East                | • Europe                                                                   |                                                                    |
| Additive                  | • Antiblock: No                       | • Slip: No                                                                 | • Thermal Stabilizer: No                                           |
| Applications              | • Caps<br>• Closures<br>• Compounding | • Food Packaging Containers<br>• Houseware Articles<br>• Injection Molding | • Masterbatch Base Resin<br>• Tough Medium Sized Molding<br>• Toys |
| Revision Date             | • 6/2006                              |                                                                            |                                                                    |

| Resin Properties         | Typical Value (English) | Typical Value (SI)      | Test Based On     |
|--------------------------|-------------------------|-------------------------|-------------------|
| Density                  | 0.924 g/cm <sup>3</sup> | 0.924 g/cm <sup>3</sup> | ExxonMobil Method |
| Melt Index <sup>2</sup>  | 22 g/10 min             | 22 g/10 min             | ExxonMobil Method |
| Peak Melting Temperature | 228 °F                  | 109 °C                  | ExxonMobil Method |

| Thermal                     | Typical Value (English) | Typical Value (SI) | Test Based On |
|-----------------------------|-------------------------|--------------------|---------------|
| Vicat Softening Temperature | 196 °F                  | 91.0 °C            | ISO 306       |

| Molded Properties        | Typical Value (English) | Typical Value (SI) | Test Based On   |
|--------------------------|-------------------------|--------------------|-----------------|
| Tensile Modulus          | 29000 psi               | 200 MPa            | ISO 527-2/1A/1  |
| Tensile Stress at Break  | 1310 psi                | 9.00 MPa           | ISO 527-2/1A/50 |
| Tensile Strain at Break  | 120 %                   | 120 %              | ISO 527-2/1A/50 |
| Shore Hardness (Shore D) | 44                      | 44                 | ISO 868         |

### Legal Statement

LD 653 can - in principle - be used in food contact applications in various EU Member States and in the USA (FDA). Migration or use limitations may apply. Please contact your ExxonMobil Chemical representative for more detailed information and/or actual compliance certification documents for the specific grade of interest.

ExxonMobil Polyethylene is not intended for use in medical applications.

### Processing Statement

The molded properties have been measured on 4 mm (157.5 mil) thick injection molded specimen, based on ISO 1872-2.

### Notes

<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.

Typical properties: these are not to be construed as specifications.

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