



## DOW™ LDPE 740E

### Low Density Polyethylene Resin

#### Overview

DOW™ LDPE 740E Low Density Polyethylene Resin has been designed with a specific focus on the compounding industry. DOW™ LDPE 740E displays good processability, ease of blending, and a controlled, low gel level. The resin is therefore suitable for the production of high quality masterbatches.

Main Characteristics:

- Designed for compounding
- Good blendability
- Good processability
- Consistently low gel level

Complies with:

- EU, No 10/2011
- U.S. FDA 21 CFR 177.1520(c)2.2

Consult the regulations for complete details.

| Physical                                     | Nominal Value (English)   | Nominal Value (SI)      | Test Method             |
|----------------------------------------------|---------------------------|-------------------------|-------------------------|
| Density                                      | 0.920 g/cm <sup>3</sup>   | 0.920 g/cm <sup>3</sup> | ASTM D792               |
| Melt Index (190°C/2.16 kg)                   | 7.5 g/10 min              | 7.5 g/10 min            | ASTM D1238              |
| Mechanical                                   | Nominal Value (English)   | Nominal Value (SI)      | Test Method             |
| Tensile Stress                               |                           |                         | ISO 527-2               |
| Yield, Compression Molded                    | 1310 psi                  | 9.00 MPa                |                         |
| Break, Compression Molded                    | 1310 psi                  | 9.00 MPa                |                         |
| Tensile Strain (Break, Compression Molded)   | 95 %                      | 95 %                    | ISO 527-2               |
| Flexural Modulus (Compression Molded)        | 40600 psi                 | 280 MPa                 | ISO 178                 |
| Impact                                       | Nominal Value (English)   | Nominal Value (SI)      | Test Method             |
| Tensile Impact Strength (Compression Molded) | 119 ft-lb/in <sup>2</sup> | 250 kJ/m <sup>2</sup>   | ISO 8256                |
| Hardness                                     | Nominal Value (English)   | Nominal Value (SI)      | Test Method             |
| Shore Hardness (Shore D, Compression Molded) | 50                        | 50                      | ISO 868                 |
| Thermal                                      | Nominal Value (English)   | Nominal Value (SI)      | Test Method             |
| Vicat Softening Temperature                  | 199 °F                    | 93.0 °C                 | ASTM D1525 <sup>1</sup> |
| Melting Temperature (DSC)                    | 228 °F                    | 109 °C                  | Dow Method              |

#### Notes

These are typical properties only and are not to be construed as specifications. Users should confirm results by their own tests.

<sup>1</sup> Rate B (120°C/h)

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|----------------------|------------------|---------------------------|----------------|
| <b>North America</b> |                  | <b>Europe/Middle East</b> | +800-3694-6367 |
| U.S. & Canada:       | 1-800-441-4369   |                           | +31-11567-2626 |
|                      | 1-989-832-1426   | Italy:                    | +800-783-825   |
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| Colombia:            | +57-1-219-6000   | <b>Asia Pacific</b>       | +800-7776-7776 |
| Mexico:              | +52-55-5201-4700 |                           | +603-7965-5392 |

[www.dowplastics.com](http://www.dowplastics.com)

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