


**Formosa Plastics®**

## Formolene® LH6008U

### High Density Polyethylene (HDPE) Resin with UV stabilizer for Injection Molding

Formolene® LH6008U is a homopolymer HDPE injection molding resin designed for toughness and good impact strength. Formolene® LH6008U offers excellent stiffness-toughness balance ideally recommended for applications requiring physical performance and a good impact.

Formolene® LH6008U meets the requirements of the U.S. Food and Drug Administration as specified in 21 CFR 177.1520 for food packaging, covering safe use of polyolefin articles intended for direct food contact.

#### Suggested Applications:

Industrial Crates

Totes and Bins

Small Appliances

#### Additives:

UV stabilizer

#### Nominal Physical Properties:

| PROPERTY*  | ASTM<br>TEST<br>METHOD | ENGLISH           |         | SI                |       |
|--|------------------------|-------------------|---------|-------------------|-------|
|  |                        | Unit              | Value   | Unit              | Value |
| Density  | D1505                  | g/cm <sup>3</sup> | 0.965   | g/cm <sup>3</sup> | 0.965 |
| Melt Index, (190°C/2.16 kg)                                      | D1238                  | g/10 min.         | 8.0     | g/10 min.         | 8.0   |
| Tensile Strength at Yield  | D638                   | psi.              | 4700    | MPa               | 32    |
| Tensile Yield Elongation   | D638                   | %                 | 6.0     | %                 | 6.0   |
| Flexural Modulus (2% Secant)                                     | D790B                  | Psi.              | 225,000 | MPa               | 1550  |
| Environmental Stress Crack<br>Resistance (100% Igepal, 50°C F50) | D1693                  | hr                | 2       | hr                | 2     |
| Deflection Temperature Under Load<br>(66psi)                     | D648                   | °F                | 187     | °C                | 86    |
| Shore Hardness (Shore D)   | D2240                  | -                 | 69      | -                 | 69    |
| Vicat Softening Temperature                                      | D1525                  | °F                | 264     | °C                | 129   |

Note: The physical properties were derived from compression molded specimens. Actual properties may vary depending on operating conditions and additive packages. Properties are not intended to be used as specifications.

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