

## HD60-800 High Density Polyethylene

**HD60-800** is a certified prime grade designed for INJECTION MOLDING of large sized industrial applications requiring high Stiffness, good Toughness and good Impact strength. **HD60-800** features easy processability, excellent dimensional stability, and high Warpage resistance. **HD60-800** recommended processing temperature is 220 to 250°C. with mold @ 20 to 40°C.. **HD60-800** complies with FDA regulation 21CFR 177.1520 (c) 3.2 (a) and with most international regulations concerning the use of Polyethylene in contact with food articles.

| PROPERTIES  | ASTM   | UNIT              | NOMINAL VALUES |
|---|--------|-------------------|----------------|
| <b>PHYSICAL</b>   |        |                   |                |
| Melt Flow Rate (190 °C, 2.16kg)                                     | D1238  | g/10 min          | 8.0            |
| Density   | D1505  | g/cm <sup>3</sup> | 0.963          |
| HDT Under Load (66 psi Unannealed)                                  | D648   | °F                | 172            |
| Environmental Stress-Cracking Resistance (122 °F, Compression, F50) | D1693B | hr                | 3.0            |
| <b>MECHANICAL</b>   |        |                   |                |
| Flexural Modulus <sup>1</sup> - 1% Secant                           | D790   | psi               | 225000         |
| Tensile Strength @ Yield <sup>2</sup>                               | D638   | psi               | 4640           |
| Notched Izod Impact (73 °F, Comp.)                                  | D256   | ft-lb/in          | 1.0            |
| Tensile Elongation @ Break <sup>2</sup>                             | D638   | %                 | 600            |

Typical Value of Properties not to be construed as specifications

\* Test Made on injection molded Type 1 tension test specimen according to ASTM D2146

1 - @ 0.051 in/min

2 - @ 2 in/min.



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