# Prixene® EA080I65

High Density Polyethylene

POLYMAT

## Message:

Prixene ® EA080I65 is a high density polyethylene homopolymer. This narrow molecular weight distribution resin is a product of Polymat innovative technology. Parts fabricated from this material exhibit a glossy surface finish, and have good impact strength and rigidity. The typical applications include cuvettes, trays, deportive articles, industrial toys, containers, industrial parts and other similar articles that requires hardness and rigidity.
The features presented are good dimensional stability, resistance to the impact, resistance UV, resistance to the deformation and high rigidity
The product form is in pellets and the apt process is for injection molding. The material fulfills with the FDA regulation title 21.CFR177.1520 (, c) 3.1a and 3.2a

| General Information | | | |
|---|---|---|---|
| Features | Good Dimensional Stability | | |
| | Good Impact Resistance | | |
| | Good UV Resistance | | |
| | High Density | | |
| | High Gloss | | |
| | High Rigidity | | |
| | Homopolymer | | |
| | Narrow Molecular Weight Distribution | | |
| Uses | Containers | | |
| | Industrial Parts | | |
| | Toys | | |
| Agency Ratings | FDA 21 CFR 177.1520(c) 3.1a | | |
| | FDA 21 CFR 177.1520(c) 3.2a | | |
| Forms | Pellets | | |
| Processing Method | Injection Molding | | |
| **Physical** | **Nominal Value** | **Unit** | **Test Method** |
| Density | 0.964 | g/cm³ | ASTM D4883 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 8.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (50°C, 100% Igepal) | 3.00 | hr | ASTM D1693 |
| **Hardness** | **Nominal Value** | **Unit** | **Test Method** |
| Durometer Hardness (Shore D) | 65 | | ASTM D2240 |
| **Mechanical** | **Nominal Value** | **Unit** | **Test Method** |
| Tensile Strength [1] (Yield) | 32.0 | MPa | ASTM D638 |
| Tensile Elongation [2] (Break) | 600 | % | ASTM D638 |
| Flexural Modulus - Tangent | 1550 | MPa | ASTM D790 |

| Impact | Nominal Value | Unit | Test Method |
|---|---|---|---|
| Notched Izod Impact (73°C) | 53 | J/m | ASTM D256 |
| **Thermal** | **Nominal Value** | **Unit** | **Test Method** |
| Deflection Temperature Under Load (0.45 MPa, Unannealed) | 78.0 | °C | ASTM D648 |
| Vicat Softening Temperature | 125 | °C | ASTM D1525 |
| **NOTE** | | | |
| 1. | 51 mm/min | | |
| 2. | 51 mm/min | | |



## Recommended distributors for this material

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WECHAT