

TAISOX 9003

High Density Polyethylene
Formosa Plastics Corporation

Message:

TAISOX 9003 is a high density polyethylene material. This product is available in North America, Europe or Asia Pacific region. The processing method is blow molding.

The main features of TAISOX 9003 are:

- chemical resistance
- High resistance to environmental stress fracture (ESCR)
- Good toughness

Typical application areas include:

- Consumer goods
- bottle
- container
- medical/health care

| General Information | | | |
|---|--|-------------------|-------------|
| Features | Ultra high toughness | | |
| | High ESCR (Stress Cracking Resistance) | | |
| | High density | | |
| | Good chemical resistance | | |
| | Detergent resistance | | |
| | Oil resistance | | |
| Uses | Tools/Parts Box | | |
| | Cosmetics | | |
| | Bottle | | |
| | Toys | | |
| | Drug | | |
| Forms | Particle | | |
| Processing Method | Blow molding | | |
| Physical | Nominal Value | Unit | Test Method |
| Density | 0.952 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.25 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance | 200 | hr | ASTM D1693 |
| Hardness | Nominal Value | Unit | Test Method |
| Durometer Hardness (Shore D) | 66 | | ASTM D2240 |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength | | | ASTM D638 |
| Yield | 27.9 | MPa | ASTM D638 |
| Fracture | 34.3 | MPa | ASTM D638 |
| Tensile Elongation (Break) | 1000 | % | ASTM D638 |

| Impact | Nominal Value | Unit | Test Method |
|---|---------------|-------------------|-------------|
| Tensile Impact Strength | 392 | kJ/m ² | ASTM D1822 |
| Thermal | Nominal Value | Unit | Test Method |
| Brittleness Temperature | -70.0 | °C | ASTM D746 |
| Vicat Softening Temperature | 124 | °C | ASTM D1525 |
| Melting Temperature | 132 | °C | |
| Additional Information | | | |
| Notched Izod Impact Strength, ASTM D256: 13 kg-cm/cm ² Die Swell Ratio, FPC Method: 1.52Pich-off thickness, FPC Method: Good | | | |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 160 - 180 | °C | |

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