

Marlex[®] HGM-020

Polypropylene Homopolymer, Formulated for Injection-Blow Molding

Applications:

- Spice bottles
- Toiletry bottles
- Cosmetic bottles

Agency Information:

- Meets FDA regulation 21 CFR 177.1520 and may safely be used for articles in contact with food except for packing or holding food during cooking.
- Listed in the Drug Master File

Nominal Properties

| Property | English | SI | Method |
|------------------------------------------|--------------|------------|------------|
| Density | 0.905 g/cc | 0.905 g/cc | ASTM D1505 |
| Melt Flow Rate, @ 230°C | 2 g/10min | 2 g/10min | ASTM D1238 |
| Tensile Strength at Yield, 50 mm/min | 5,400 psi | 37.2 MPa | ASTM D638 |
| Flexural Modulus, Secant, 1.3 mm/min | 235,000 psi | 1,620 MPa | ASTM D790 |
| Notched Izod Impact Strength, @ 23°C | 0.8 ft*lb/in | 43 J/m | ASTM D256 |
| Heat Deflection Temperature, @ 0.455 MPa | 215 °F | 102 °C | ASTM D648 |
| Rockwell Hardness, R Scale | 98 | 98 | ASTM D785 |
| Shore D Hardness | 72 | 72 | ASTM D2240 |

Mechanical properties were determined using injection-molded specimens 1/8" (3.2mm) thick molded per ASTM D4101, unless otherwise noted.

The nominal properties reported herein are typical of the product but do not reflect normal testing variance and therefore should not be used for specification purposes.

