

MARPOL® HDB 502

Marco Polo International, LLC - High Density Polyethylene

Wednesday, September 14, 2022

| | General I | nformation | | |
|---|---|------------------------------------|--|--|
| Product Description | | | | |
| This resin complies with FDA reexcept during cooking. | egulation 21 CFR 177.1520 (c)3.1a, and may be u | sed as articles or components of a | articles intended for packaging or holding food, | |
| General | | | | |
| Material Status | Commercial: Active | | | |
| Availability | Africa & Middle East | • Europe | North America | |
| | Asia Pacific | Latin America | | |
| Features | Food Contact Acceptable | High Density | | |
| Uses | Food Packaging | Packaging | | |
| Agency Ratings | • FDA 21 CFR 177.1520(c) 3.1a | l | | |

| ASTM & ISO Properties ¹ | | | | | |
|---|---------------|----------|-------------|--|--|
| Physical | Nominal Value | Unit | Test Method | | |
| Density | 0.953 | g/cm³ | ASTM D1505 | | |
| Melt Mass-Flow Rate (190°C/2.16 kg) | 0.32 | g/10 min | ASTM D1238 | | |
| Environmental Stress-Cracking Resistance (ESCR) | | | | | |
| F50 | 30.0 | hr | ASTM D1693 | | |
| F50 | > 500 | hr | ASTM D2561 | | |
| Mechanical | Nominal Value | Unit | Test Method | | |
| Tensile Strength (Yield) | 27.6 | MPa | ASTM D638 | | |
| Flexural Modulus | 1240 | MPa | ASTM D790 | | |
| Hardness | Nominal Value | Unit | Test Method | | |
| Durometer Hardness (Shore D) | 66 | | ASTM D2240 | | |

Notes



¹ Typical properties: these are not to be construed as specifications.