# Marlex® HHM 5502-01ST

高密度聚乙烯

**Chevron Phillips Chemical Company LLC**

## Technical Data

### Product Description

This high molecular weight, ethylene-hexene copolymer is tailored for extruded, thermoformed, and blow molded applications that require:

- Excellent stiffness
- Good processability
- Durability
- Recyclability

Typical sheet extrusion and thermoforming applications include:

- Signage
- Tote boxes
- Food containers
- Fragility packaging

Typical blow molding applications include:

- Tote boxes
- Wastebaskets
- Storage sheds and cabinets
- Ice chests and coolers

This resin meets these specifications:

- ASTM D4976 - PE 235
- FDA 21 CFR 177.1520(c) 3.2a, use conditions B through H per Table 2 of 21 CFR 176.170(c)
- Listed in the Drug Master File

### General

| | | | |
|---|---|---|---|
| Features | • 高分子量<br>• 高刚性<br>• 共聚物 | • 己烯共聚单体<br>• 可回收材料<br>• 良好的加工性能 | • 耐用性<br>• 食品接触的合规性 |
| Uses | • 包装<br>• 废物容器 | • 工具/零件箱<br>• 食品容器 | |
| Agency Ratings | • ASTM D4976-PE235<br>• DMF 未评级 | • FDA 21 CFR 176.170(c), 表 2 [2]<br>• FDA 21 CFR 177.1520(c) 3.2a | |
| Forms | • 粒子 | | |
| Processing Method | • 吹塑成型<br>• 挤出 | • 片材挤出成型<br>• 热成型 | |

| Physical | 额定值 单位制 | 测试方法 |
|---|---|---|
| Density | 0.955 g/cm³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 0.25 g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | |
| 100% Igepal, F50 | 45.0 hr | ASTM D1693A |
| 100% Igepal, F50 | 35.0 hr | ASTM D1693B |
| **Mechanical** | **额定值 单位制** | **测试方法** |
| Tensile Strength [4] (屈服) | 27.0 MPa | ASTM D638 |
| Tensile Elongation [4] (断裂) | 600 % | ASTM D638 |
| Flexural Modulus - 正切 [5] | 1370 MPa | ASTM D790 |
| **Thermal** | **额定值 单位制** | **测试方法** |
| Brittleness Temperature | < -75.0 °C | ASTM D746A |