

Microthene MP652962

LyondellBasell Industries - High Density Polyethylene

General Information

Product Description

Microthene MP652962 is a hexene HDPE powder selected by customers for rotationally molding large tank applications. MP652962 is a UV-stabilized, 35-mesh powder and is also available in pellet form as Petrothene GA652962.

General

| | | | |
|-------------------|----------------------|--------------------|-------------------|
| Uses | • Containers | • Industrial Tanks | • Rigid Packaging |
| Processing Method | • Rotational Molding | | |

Properties ¹

| Physical | Nominal Value | Unit | Test Method |
|--|---------------|-------------------|-------------|
| Density (23°F) | 0.942 | g/cm ³ | ASTM D1505 |
| Melt Mass-Flow Rate (MFR) (190°C/2.16 kg) | 2.0 | g/10 min | ASTM D1238 |
| Environmental Stress-Cracking Resistance (ESCR) | | | ASTM D1693A |
| 10% Igepal, F50 | 50.0 | hr | |
| 100% Igepal, F50 | 400 | hr | |
| Mechanical | Nominal Value | Unit | Test Method |
| Tensile Strength (Yield) | 3390 | psi | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant | 146000 | psi | |
| 2% Secant | 124000 | psi | |
| Impact | Nominal Value | Unit | Test Method |
| Impact Strength | | | ARM |
| -40°F, 0.125 in | 57 | ft-lb | |
| -40°F, 0.250 in | 160 | ft-lb | |
| Thermal | Nominal Value | Unit | Test Method |
| Deflection Temperature Under Load (66 psi, Unannealed) | 149 | °F | ASTM D648 |
| Deflection Temperature Under Load 264 psi, Unannealed | 109 | °F | ASTM D648 |