



Microthene®
MP652762
High Density Polyethylene Powder
Rotational Molding Grade
Melt Index 2.0 Density 0.942

Applications

MICROTHENE MP652762 is a hexene HDPE powder used mainly for rotationally molding large tank applications. MP652662 is a UV 8-stabilized, 35-mesh powder and is also available in pellet form as PETROTHENE® GA652762.

Regulatory Status

MP652762 meets the requirements of the Food and Drug Administration, 21CFR Section 177.1520. This regulation allows the use of this olefin polymer in "...articles or components of articles intended for use in contact with food..." Specific limitations or conditions of use may apply. Contact your Equistar sales representative for more information.

Processing Techniques

Specific recommendations for conditions under which MP652762 should be processed can be made only when the end use and type of processing equipment are known. For exact recommendations, please contact your Equistar sales representative.

Typical Properties

| Property | Nominal Value | Units | ASTM Test Method | Sample |
|--------------------------------------|---------------|----------|------------------|--------------------|
| Melt Index (190/2.16) | 2.0 | g/10 min | D 1238 | Pellets |
| Density | 0.942 | g/cc | D 1505 | Compression molded |
| Melting Point | 129 | °C | D 3418 | Rotomolded** |
| ESCR, Condition A, F ₅₀ | | | | |
| 100% Igepal®, CO-630 | 720 | hrs | D 1693 | Rotomolded** |
| 10% Igepal®, CO-630 | 48 | hrs | D 1693 | Rotomolded** |
| Flexural Modulus, 1% Secant | 130,000 | psi | D 790 | Rotomolded** |
| Tensile Strength @ Yield, 2"/min* | 3,220 | psi | D 638 | Rotomolded** |
| Tensile Elongation @ Yield | 18 | % | D 638 | Rotomolded** |
| Heat Distortion Temperature @ 66 psi | 67 | °C | D 648 | Rotomolded** |
| @ 264 psi | 42 | °C | | |
| Low Temperature Impact | | | ARM STD | |
| 1/8" specimen | 80 | ft-lbs | -40°F impact | Rotomolded** |
| 1/4" specimen | 190 | ft-lbs | -40°F impact | Rotomolded |
| Meets FDA Requirements | yes | | | |
| UV 8-stabilized | yes | | | |

* Thickness of specimen 1/8".

** Type IV specimen.

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