

Petrothene

GA652762

High Density Polyethylene
Rotational Molding Grade
Melt Index 2.0 Density 0.942



Applications

Petrothene GA652762 is a hexene HDPE resin used mainly for rotationally molding large tank applications. GA652762 is UV 8-stabilized and is available in a 35 mesh powder as *Microthene* MP652762

Regulatory Status

GA652762 meets the requirements of Food and Drug Administration regulation, 21 CFR 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 processing GA652762 can be made only when the required properties, processing equipment and end use are known. For further suggestions, please contact your Equistar sales representative.

Typical Properties

| Property | Value | Units | ASTM Test Method | Sample |
|--------------------------------------|---------|----------|------------------|--------------|
| Melt Index (190/2.16) | 2.0 | g/10 min | D 1238 | Pellets |
| Density molded | 0.942 | g/cc | D 1505 | Compression |
| Melting Point | 129 | °C | D 3418 | Rotomolded** |
| ESCR, Condition A, F ₅₀ | | | | |
| 100% Igepal®, CO-630 | >1000 | hrs | D 1693 | Rotomolded** |
| 10% Igepal®, CO-630 | 48 | hrs | D 1693 | Rotomolded** |
| Flexural Modulus, 1% Secant | 125,000 | psi | D 790 | Rotomolded** |
| Tensile Strength @ Yield, 2"/min* | 3,200 | psi | D 638 | Rotomolded** |
| Tensile Elongation @ Yield | 10 | % | 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 | | | |

* Type IV Specimen

** Thickness of specimen is 1/8"

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