

## Technical Data Sheet

### *Microthene* GR71900



High Density Polyethylene

#### Product Description

GR71900 are use in a broad range of specialty applications. GR71900 powders combine the unique properties of a polyolefin resin with a small particle size.

#### Regulatory Status

For regulatory compliance information, see *Microthene* GR71900 [Product Stewardship Bulletin \(PSB\)](#) and [Safety Data Sheet \(SDS\)](#).

|                     |                                                                                         |
|---------------------|-----------------------------------------------------------------------------------------|
| <b>Status</b>       | Commercial: Active                                                                      |
| <b>Availability</b> | North America                                                                           |
| <b>Forms</b>        | Powder                                                                                  |
| <b>Appearance</b>   | Natural Color                                                                           |
| <b>Application</b>  | Automotive Applications; Colour Concentrates; Industrial Applications; Structural Parts |

| Typical Properties                     | Nominal Value | Units             | Test Method |
|----------------------------------------|---------------|-------------------|-------------|
| <b>Physical</b>                        |               |                   |             |
| Melt Flow Rate, (190 °C/2.16 kg)       | 10            | g/10 min          | ASTM D1238  |
| Density                                | 0.952         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                      |               |                   |             |
| Tensile Strength at Break              | 11.7          | MPa               | ASTM D638   |
| Flexural Modulus                       | 1100          | MPa               | ASTM D790   |
| Tensile Elongation at Break            | 400           | %                 | ASTM D638   |
| <b>Impact</b>                          |               |                   |             |
| Ductile/Brittle Transition Temperature | <-76.1        | °C                | ASTM D746   |
| <b>Hardness</b>                        |               |                   |             |
| Durometer Hardness, (Shore D)          | 66            |                   | ASTM D2240  |
| <b>Thermal</b>                         |               |                   |             |
| Vicat Softening Temperature            | 125           | °C                | ASTM D1525  |
| Peak Melting Temperature               | 134           | °C                | ASTM D3418  |
| <b>Additional Information</b>          |               |                   |             |
| Average Particle Size                  |               |                   |             |
| LYB Method                             |               |                   |             |
| Moisture Content                       | <0.1          | %                 |             |
| LYB Method                             |               |                   |             |

## Notes

These are typical property values not to be construed as specification limits.

## Processing Techniques

Specific recommendations for resin type and processing conditions can only be made when the end use, required properties and fabrication equipment are known.

## Company Information

For further information regarding the LyondellBasell company, please visit <http://www.lyb.com/>.

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