

## Technical Data Sheet

### Microthene PE-LD150 Grind



Low Density Polyethylene

#### Product Description

GR52900 are use in a broad range of specialty applications. GR52900 powders combine the unique properties of a polyolefin resin with a small particle size.

|             |                                                                                         |
|-------------|-----------------------------------------------------------------------------------------|
| Forms       | Powder                                                                                  |
| Appearance  | Natural Color                                                                           |
| Application | 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)       | 5.2           | g/10 min          | ASTM D1238  |
| Density                                | 0.923         | g/cm <sup>3</sup> | ASTM D1505  |
| <b>Mechanical</b>                      |               |                   |             |
| Tensile Strength at Break              | 12.4          | MPa               | ASTM D638   |
| Flexural Modulus                       | 276           | MPa               | ASTM D790   |
| Tensile Elongation at Break            | 550           | %                 | ASTM D638   |
| <b>Impact</b>                          |               |                   |             |
| Ductile/Brittle Transition Temperature | <-76.1        | °C                | ASTM D746   |
| <b>Hardness</b>                        |               |                   |             |
| Durometer Hardness, (Shore D)          | 53            |                   | ASTM D2240  |
| <b>Thermal</b>                         |               |                   |             |
| Vicat Softening Temperature            | 97.0          | °C                | ASTM D1525  |
| Peak Melting Temperature               | 110           | °C                | ASTM D3418  |
| <b>Additional Information</b>          |               |                   |             |
| Average Particle Size                  |               |                   |             |
| Moisture Content                       | <0.1          | %                 |             |
| LYB Method                             |               |                   |             |