

## Fiberfil M-2149

Polypropylene Homopolymer

LyondellBasell Industries

Engineering Plastics

| General                |                                     |  |  |
|------------------------|-------------------------------------|--|--|
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight |  |  |
| Features               | • Homopolymer                       |  |  |
| Forms                  | • Pellets                           |  |  |

  

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.12                    | 1.12 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 15 g/10 min             | 15 g/10 min            | ASTM D1238  |
| Water Absorption (24 Hr)                  | 0.030 %                 | 0.030 %                | ASTM D570   |

  

| Mechanical                               | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------------------------------------|-------------------------|--------------------|-------------|
| Tensile Modulus (73°F (23°C))            | 850000 psi              | 5860 MPa           | ASTM D638   |
| Tensile Strength (73°F (23°C))           | 12000 psi               | 82.7 MPa           | ASTM D638   |
| Tensile Elongation (Yield, 73°F (23°C))  | 3.0 %                   | 3.0 %              | ASTM D638   |
| Flexural Modulus - Tangent (73°F (23°C)) | 750000 psi              | 5170 MPa           | ASTM D790   |
| Flexural Strength (73°F (23°C))          | 15500 psi               | 107 MPa            | ASTM D790   |

  

| Impact                          | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact             |                         |                    | ASTM D256   |
| 73°F (23°C), 0.125 In (3.18 Mm) | 1.4 ft·lb/in            | 75 J/m             |             |

  

| Hardness                    | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------|-------------------------|--------------------|-------------|
| Rockwell Hardness (R-scale) | 105                     | 105                | ASTM D785   |

  

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 315 °F                  | 157 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed     | 305 °F                  | 152 °C             |             |

### Additional Information

Rockwell Hardness, ASTM D785, R-Scale: 100 to 110

### Notes

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

