

Technical Data Sheet

Ferrex GPP40CC83WH

Polypropylene Homopolymer
LyondellBasell Industries
Engineering Plastics

| General | | | |
|------------------------|---|---------------|--|
| Filler / Reinforcement | • Calcium Carbonate, 40% Filler by Weight | | |
| Features | • High Gloss | • Homopolymer | |
| Forms | • Pellets | | |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|------------------------|-------------|
| Density / Specific Gravity | 1.24 | 1.24 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 11 g/10 min | 11 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---|-------------------------|--------------------|-------------|
| Tensile Strength (Yield, 73°F (23°C)) | 3500 psi | 24.1 MPa | ASTM D638 |
| Tensile Elongation (Break, 73°F (23°C)) | 15 % | 15 % | ASTM D638 |
| Flexural Modulus | | | ASTM D790 |
| 1% Secant : 73°F (23°C) | 302000 psi | 2080 MPa | |
| Tangent : 73°F (23°C) | 356000 psi | 2450 MPa | |
| Flexural Strength (Yield, 73°F (23°C)) | 6000 psi | 41.4 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C)) | 1.0 ft·lb/in | 53 J/m | ASTM D256 |
| Unnotched Izod Impact (73°F (23°C)) | 21 ft·lb/in | 1100 J/m | ASTM D4812 |
| Gardner Impact | 192 in·lb | 21.7 J | ASTM D5420 |

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load | | | ASTM D648 |
| 66 Psi (0.45 Mpa), Unannealed | 205 °F | 96.1 °C | |
| 264 Psi (1.8 Mpa), Unannealed | 155 °F | 68.3 °C | |

| Additional Information | | | |
|---------------------------------|--|--|--|
| Filler Content, ASTM D2584: 40% | | | |

Notes

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