

Technical Data Sheet

## Ferro Pp WPP10SD02NA

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

| General                                   |                                                            |                         |             |
|-------------------------------------------|------------------------------------------------------------|-------------------------|-------------|
| Filler / Reinforcement                    | • Wollastonite (CaSiO <sub>3</sub> ), 10% Filler by Weight |                         |             |
| Automotive Specifications                 | • FORD WSH-M4D832-A                                        |                         |             |
| Appearance                                | • Natural Color                                            |                         |             |
| Forms                                     | • Pellets                                                  |                         |             |
| Processing Method                         | • Injection Molding                                        |                         |             |
| Physical                                  | Nominal Value (English)                                    | Nominal Value (SI)      | Test Method |
| Density / Specific Gravity                | 0.990                                                      | 0.988 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 5.0 g/10 min                                               | 5.0 g/10 min            | ASTM D1238  |
| Mechanical                                | Nominal Value (English)                                    | Nominal Value (SI)      | Test Method |
| Tensile Strength (Yield)                  | 4900 psi                                                   | 33.8 MPa                | ASTM D638   |
| Tensile Elongation (Break)                | 60 %                                                       | 60 %                    | ASTM D638   |
| Flexural Modulus                          | 250000 psi                                                 | 1720 MPa                | ASTM D790   |
| Flexural Strength (Yield)                 | 6500 psi                                                   | 44.8 MPa                | ASTM D790   |
| Impact                                    | Nominal Value (English)                                    | Nominal Value (SI)      | Test Method |
| Notched Izod Impact (73°F (23°C))         | 0.75 ft·lb/in                                              | 40 J/m                  | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C))       | 12 ft·lb/in                                                | 640 J/m                 | ASTM D4812  |
| Gardner Impact                            | 5.00 in·lb                                                 | 0.565 J                 | ASTM D3029  |
| Hardness                                  | Nominal Value (English)                                    | Nominal Value (SI)      | Test Method |
| Durometer Hardness (Shore D)              | 72                                                         | 72                      | ASTM D2240  |
| Thermal                                   | Nominal Value (English)                                    | Nominal Value (SI)      | Test Method |
| Deflection Temperature Under Load         |                                                            |                         | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed             | 250 °F                                                     | 121 °C                  |             |
| 264 Psi (1.8 Mpa), Unannealed             | 150 °F                                                     | 65.6 °C                 |             |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 176 °F                  | 80 °C              |
| Drying Time            | 2.0 to 3.0 hr           | 2.0 to 3.0 hr      |
| Processing (Melt) Temp | 428 to 500 °F           | 220 to 260 °C      |
| Mold Temperature       | 86 to 140 °F            | 30 to 60 °C        |

### Notes

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