

## Ferro Pp TPP40AC73NA

Polypropylene Homopolymer  
LyondellBasell Industries  
Engineering Plastics

| General                |                              |
|------------------------|------------------------------|
| Filler / Reinforcement | • Talc, 41% Filler by Weight |
| Features               | • Homopolymer                |
| Forms                  | • Pellets                    |
| Processing Method      | • Injection Molding          |

| Physical                                  | Nominal Value (English) | Nominal Value (SI)     | Test Method |
|-------------------------------------------|-------------------------|------------------------|-------------|
| Density / Specific Gravity                | 1.29                    | 1.29 g/cm <sup>3</sup> | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 5.5 g/10 min            | 5.5 g/10 min           | ASTM D1238  |

| Mechanical                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------------|-------------------------|--------------------|-------------|
| Tensile Strength (73°F (23°C))          | 4600 psi                | 31.7 MPa           | ASTM D638   |
| Tensile Elongation (Break, 73°F (23°C)) | 8.0 %                   | 8.0 %              | ASTM D638   |
| Flexural Modulus                        |                         |                    | ASTM D790   |
| 1% Secant : 73°F (23°C)                 | 454000 psi              | 3130 MPa           |             |
| Tangent : 73°F (23°C)                   | 604000 psi              | 4160 MPa           |             |
| Flexural Strength (73°F (23°C))         | 8100 psi                | 55.8 MPa           | ASTM D790   |

| Impact                              | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-------------------------------------|-------------------------|--------------------|-------------|
| Notched Izod Impact (73°F (23°C))   | 0.40 ft·lb/in           | 21 J/m             | ASTM D256   |
| Unnotched Izod Impact (73°F (23°C)) | 4.6 ft·lb/in            | 250 J/m            | ASTM D4812  |
| Gardner Impact (73°F (23°C))        | 6.50 in·lb              | 0.734 J            | ASTM D5420  |

| Thermal                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|-----------------------------------|-------------------------|--------------------|-------------|
| Deflection Temperature Under Load |                         |                    | ASTM D648   |
| 66 Psi (0.45 Mpa), Unannealed     | 285 °F                  | 141 °C             |             |
| 264 Psi (1.8 Mpa), Unannealed     | 190 °F                  | 87.8 °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.

