

## Technical Data Sheet

# Matrixx FPP5A30HC

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

### Product Description

30% Glass-Reinforced, Heat Stabilized, Chemically Coupled Polypropylene

### General

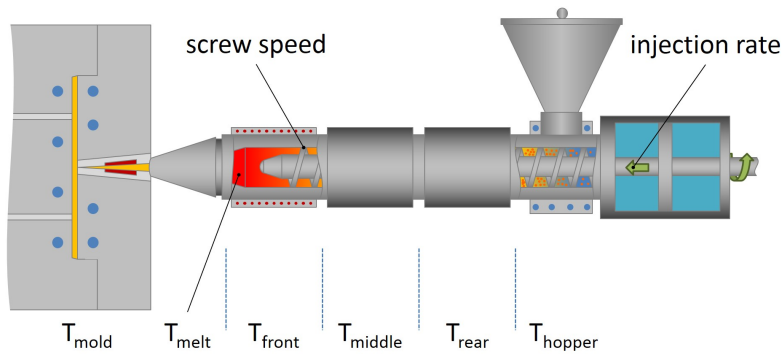
|                        |                                        |
|------------------------|----------------------------------------|
| Material Status        | • Commercial: Active                   |
| Availability           | • North America                        |
| Filler / Reinforcement | • Glass Fiber, 30% Filler by Weight    |
| Features               | • Chemically Coupled • Heat Stabilized |
| Forms                  | • Pellets                              |
| Processing Method      | • Injection Molding                    |

| Physical                                                           | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------------------------------------------------------------------|-------------------------|--------------------|-------------|
| Density / Specific Gravity                                         | 1.13                    | 1.13 g/cm³         | ASTM D792   |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)                          | 4.0 g/10 min            | 4.0 g/10 min       | ASTM D1238  |
| Mechanical                                                         | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Tensile Strength (Yield)                                           | 7500 psi                | 51.7 MPa           | ASTM D638   |
| Flexural Modulus - Tangent                                         | 600000 psi              | 4140 MPa           | ASTM D790   |
| Impact                                                             | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Notched Izod Impact                                                | 4.3 ft·lb/in            | 230 J/m            | ASTM D256   |
| Thermal                                                            | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Deflection Temperature Under Load<br>66 Psi (0.45 Mpa), Unannealed | 300 °F                  | 149 °C             | ASTM D648   |
| Flammability                                                       | Nominal Value (English) | Nominal Value (SI) | Test Method |
| Flame Rating (0.06 In (1.5 Mm))                                    | HB                      | HB                 | UL 94       |

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| Injection              | Nominal Value (English) | Nominal Value (SI) |
|------------------------|-------------------------|--------------------|
| Drying Temperature     | 180 to 220 °F           | 82 to 104 °C       |
| Drying Time            | 2.0 to 4.0 hr           | 2.0 to 4.0 hr      |
| Rear Temperature       | 390 to 470 °F           | 199 to 243 °C      |
| Middle Temperature     | 390 to 470 °F           | 199 to 243 °C      |
| Front Temperature      | 390 to 470 °F           | 199 to 243 °C      |
| Processing (Melt) Temp | 390 to 470 °F           | 199 to 243 °C      |
| Mold Temperature       | 60 to 150 °F            | 16 to 66 °C        |
| Injection Rate         | Moderate                | Moderate           |
| Back Pressure          | < 50.0 psi              | < 0.345 MPa        |
| Screw Speed            | 20 to 60 rpm            | 20 to 60 rpm       |
| Cushion                | 0.250 to 0.500 in       | 6.35 to 12.7 mm    |

### Injection Notes

Drying not normally required

### Notes

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