

Technical Data Sheet

Matrixx FPR1B20CCBK-V

Polypropylene
 LyondellBasell Industries
 Engineering Plastics

Product Description

FPR1B20CCBK-V is a 20% Glass-Reinforced, Chemically Coupled Polypropylene

General

| | |
|------------------------|-------------------------------------|
| Material Status | • Commercial: Active |
| Availability | • North America |
| Filler / Reinforcement | • Glass Fiber, 20% Filler by Weight |
| Features | • Chemically Coupled |
| Appearance | • Black • Colors Available |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

| Physical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|----------|-------------------------|--------------------|-------------|
|----------|-------------------------|--------------------|-------------|

| | | | |
|---|--------------|------------------------|------------|
| Density / Specific Gravity | 1.05 | 1.05 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 9.0 g/10 min | 9.0 g/10 min | ASTM D1238 |

| Mechanical | Nominal Value (English) | Nominal Value (SI) | Test Method |
|------------|-------------------------|--------------------|-------------|
|------------|-------------------------|--------------------|-------------|

| | | | |
|----------------------------|------------|----------|-----------|
| Tensile Strength (Yield) | 6000 psi | 41.4 MPa | ASTM D638 |
| Tensile Elongation (Break) | 6.0 % | 6.0 % | ASTM D638 |
| Flexural Modulus | 390000 psi | 2690 MPa | ASTM D790 |

| Impact | Nominal Value (English) | Nominal Value (SI) | Test Method |
|--------|-------------------------|--------------------|-------------|
|--------|-------------------------|--------------------|-------------|

| | | | |
|---------------------|--------------|--------|-----------|
| Notched Izod Impact | 1.5 ft-lb/in | 80 J/m | ASTM D256 |
|---------------------|--------------|--------|-----------|

| Thermal | Nominal Value (English) | Nominal Value (SI) | Test Method |
|---------|-------------------------|--------------------|-------------|
|---------|-------------------------|--------------------|-------------|

| | | | |
|--|--------|--------|-----------|
| Deflection Temperature Under Load 264 Psi (1.8 Mpa), Unannealed | 250 °F | 121 °C | ASTM D648 |
|--|--------|--------|-----------|

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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.