

Technical Data Sheet

Matrixx PP3A0HB

Polypropylene Copolymer
 LyondellBasell Industries
 Engineering Plastics

Product Description

PP3A0HB is an Unfilled, High Impact Polypropylene Copolymer

General

| | |
|-------------------|---------------------|
| Features | • Copolymer |
| Forms | • Pellets |
| Processing Method | • Injection Molding |

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

| | | | |
|---|--------------|-------------------------|------------|
| Density / Specific Gravity | 0.910 | 0.908 g/cm ³ | ASTM D792 |
| Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg) | 7.8 g/10 min | 7.8 g/10 min | ASTM D1238 |

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

| | | | |
|---------------------------------------|------------|----------|-----------|
| Tensile Strength (Yield, 73°F (23°C)) | 3980 psi | 27.4 MPa | ASTM D638 |
| Tensile Elongation (Yield) | 19 % | 19 % | ASTM D638 |
| Flexural Modulus - Tangent | 167000 psi | 1150 MPa | ASTM D790 |

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

| | | | |
|---------------------------------|--------------|---------|-----------|
| Notched Izod Impact | | | ASTM D256 |
| 73°F (23°C), 0.125 In (3.18 Mm) | 2.6 ft·lb/in | 140 J/m | |

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

| | | | |
|--|--------|---------|---------|
| RTI Elec (0.06 To 0.12 In (1.5 To 3.0 Mm)) | 149 °F | 65.0 °C | UL 746B |
| RTI Imp (0.06 To 0.12 In (1.5 To 3.0 Mm)) | 149 °F | 65.0 °C | UL 746B |
| RTI Str (0.06 To 0.12 In (1.5 To 3.0 Mm)) | 149 °F | 65.0 °C | UL 746B |

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

| | | | |
|---------------------------|----|----|-------|
| Flame Rating ¹ | 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 | 350 to 450 °F | 177 to 232 °C |
| Middle Temperature | 350 to 450 °F | 177 to 232 °C |
| Front Temperature | 350 to 450 °F | 177 to 232 °C |
| Processing (Melt) Temp | 380 to 450 °F | 193 to 232 °C |
| Mold Temperature | 70 to 120 °F | 21 to 49 °C |
| Injection Rate | Moderate | Moderate |
| Back Pressure | 20.0 to 300 psi | 0.138 to 2.07 MPa |
| Cushion | 0.250 to 0.500 in | 6.35 to 12.7 mm |

Injection Notes

- Drying not normally required
- Screw Speed: Slow to Medium
- Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target