

Technical Data Sheet

# Matrixx TPP10AT23NA-NA

Polypropylene  
LyondellBasell Industries  
Engineering Plastics

**Product Description**  
TPP10AT23NA-NA is a 10% Talc-Filled, UV Stabilized, Impact Modified Polypropylene, Natural

General	
Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Talc, 10% Filler by Weight
Forms	• Pellets
Processing Method	• Injection Molding

Physical	Nominal Value (English)	Nominal Value (SI)	Test Method
Density / Specific Gravity	0.950	0.948 g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 Kg)	9.9 g/10 min	9.9 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Stress (Yield)	3190 psi	22.0 MPa	ISO 527-2
Flexural Modulus	173000 psi	1190 MPa	ISO 178

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Charpy Notched Impact Strength	30 ft·lb/in <sup>2</sup>	63 kJ/m <sup>2</sup>	ISO 179
Notched Izod Impact			
73°F (23°C)	25 ft·lb/in	1300 J/m	ASTM D256
--	0.14 ft·lb/in <sup>2</sup>	0.29 kJ/m <sup>2</sup>	ISO 180

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
Deflection Temperature Under Load			
264 Psi (1.8 Mpa), Unannealed	131 °F	55.0 °C	ISO 75-2/A

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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 430 °F	177 to 221 °C
Middle Temperature	350 to 430 °F	177 to 221 °C
Front Temperature	350 to 430 °F	177 to 221 °C
Processing (Melt) Temp	390 to 440 °F	199 to 227 °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
- Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target
- Screw Speed: Slow to Medium

### Notes

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