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/cm³	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/in²	63 kJ/m²	ISO 179
Notched Izod Impact			
73°f (23°c)	25 ft·lb/in	1300 J/m	ASTM D256
--	0.14 ft·lb/in²	0.29 kJ/m²	ISO 180
Thermal	**Nominal Value (English)**	**Nominal Value (SI)**	**Test Method**
Deflection Temperature Under Load			ISO 75-2/A
264 Psi (1.8 Mpa), Unannealed	131 °F	55.0 °C	

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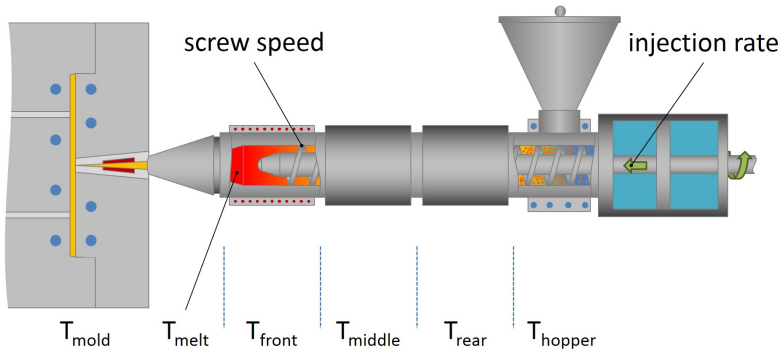

Injection	Nominal Value (English)	Nominal Value (SI)
Drying Temperature	180 to 220 °F	82 to 104 °C
Drying Time	2.0 to 4.0 hr	2.0 to 4.0 hr
Rear Temperature	350 to 430 °F	177 to 221 °C
Middle Temperature	350 to 430 °F	177 to 221 °C
Front Temperature	350 to 430 °F	177 to 221 °C
Processing (Melt) Temp	390 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.