

Technical Data Sheet

Matrixx TPP2B20BK21

Polypropylene Copolymer
LyondellBasell Industries
Engineering Plastics

General	
Filler / Reinforcement	• Talc, 20% Filler by Weight
Appearance	• Black
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)	10 g/10 min	10 g/10 min	ASTM D1238

Mechanical	Nominal Value (English)	Nominal Value (SI)	Test Method
Tensile Strength (Yield)	3750 psi	25.9 MPa	ASTM D638
Flexural Modulus - Tangent	285000 psi	1970 MPa	ASTM D790

Impact	Nominal Value (English)	Nominal Value (SI)	Test Method
Notched Izod Impact	1.7 ft·lb/in	91 J/m	ASTM D256
Gardner Impact	130 in·lb	14.7 J	ASTM D3029

Thermal	Nominal Value (English)	Nominal Value (SI)	Test Method
RTI Str	150 °F	65.6 °C	UL 746B

Additional Information	
1EAE8A/PR2795	
Revision: 5/2/2020	

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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.