

Matrixx TPP1B20

Polypropylene
The Matrixx Group, Inc.

Message:
Matrixx TPP1B20 is a polypropylene material, which contains 20% talc filler. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx TPP1B20 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.90 - 1.3	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	33.1	MPa	ASTM D638
Flexural Modulus - Tangent	2480	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	32	J/m	ASTM D256
Dart Drop Impact	< 1.13	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	118	°C	ASTM D648
1.8 MPa, not annealed	68.3	°C	ASTM D648
RTI	65.6	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	82.2 - 104	°C	
Drying Time	2.0 - 4.0	hr	
Rear Temperature	177 - 221	°C	
Middle Temperature	177 - 221	°C	
Front Temperature	177 - 221	°C	
Processing (Melt) Temp	199 - 227	°C	
Mold Temperature	21.1 - 48.9	°C	
Injection Rate	Moderate		
Back Pressure	0.138 - 2.07	MPa	
Cushion	6.35 - 12.7	mm	
Injection instructions			

Drying not normally requiredInjection Booster Pressure: Maximum without flash, 60% of machine maximum, targetScrew Speed: Slow to Medium

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Recommended distributors for this material

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