

Matrixx TPP1B10

Polypropylene

The Matrixx Group, Inc.

Message:

Matrixx TPP1B10 is a polypropylene material, which contains 10% talc filler. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx TPP1B10 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Talc filler, 10% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.968	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)	33.8	MPa	ASTM D638
Flexural Modulus - Tangent	2000	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	37	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	113	°C	ASTM D648
1.8 MPa, not annealed	62.8	°C	ASTM D648
RTI	65.6	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Additional Information			
The value listed as Mold Shrinkage, ASTM D955, was tested in accordance with Matrixx test methods.			
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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