

Matrixx TPP2B10

Polypropylene Copolymer

The Matrixx Group, Inc.

Message:

Matrixx TPP2B10 is a polypropylene copolymer (PP Copoly) material, which contains 10% talc filler. This product is available in North America and is processed by injection molding.

The main features of the Matrixx TPP2B10 are:

flame retardant/rated flame

Copolymer

General Information			
Filler / Reinforcement	Talc filler, 10% filler by weight		
Features	Copolymer		
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)	27.6	MPa	ASTM D638
Flexural Modulus - Tangent	1520	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	80	J/m	ASTM D256
Dart Drop Impact	8.47	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	102	°C	ASTM D648
1.8 MPa, not annealed	54.4	°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 required Injection Booster Pressure: Maximum without flash, 60% of machine maximum, target Screw Speed: Slow to Medium

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