

Matrixx TPP2B20

Polypropylene Copolymer

The Matrixx Group, Inc.

Message:

Matrixx TPP2B20 is a polypropylene copolymer (PP Copoly) material, which contains 20% talc filler. This product is available in North America and is processed by injection molding.

The main features of the Matrixx TPP2B20 are:

flame retardant/rated flame

Copolymer

General Information			
Filler / Reinforcement	Talc filler, 20% filler by weight		
Features	Copolymer		
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)	26.9	MPa	ASTM D638
Flexural Modulus - Tangent	1860	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	69	J/m	ASTM D256
Dart Drop Impact	6.78	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	110	°C	ASTM D648
1.8 MPa, not annealed	65.6	°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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