

# Matrixx FPP1A20CC

Polypropylene

The Matrixx Group, Inc.

## Message:

Matrixx FPP1A20CC is a polypropylene material, and the filler is 20% glass fiber reinforced material. This product is available in North America and is processed by injection molding.

The main features of the Matrixx FPP1A20CC are:

flame retardant/rated flame

Chemical coupling

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 20% filler by weight		
Features	Chemical coupling		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.50	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	63.4	MPa	ASTM D638
Flexural Modulus - Tangent	3590	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	157	°C	ASTM D648
1.8 MPa, not annealed	143	°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	199 - 243	°C	
Middle Temperature	199 - 243	°C	
Front Temperature	199 - 243	°C	
Processing (Melt) Temp	199 - 243	°C	
Mold Temperature	15.6 - 65.6	°C	
Injection Rate	Moderate		
Back Pressure	< 0.345	MPa	

Screw Speed	20 - 60	rpm
Cushion	6.35 - 12.7	mm

#### Injection instructions

Drying not normally required

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#### Recommended distributors for this material

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