

Matrixx 50S5102

Polycarbonate

The Matrixx Group, Inc.

Message:

Matrixx 50S5102 is a polycarbonate (PC) material, which contains a 10% glass fiber reinforced material. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx 50S5102 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.40	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	63.4	MPa	ASTM D638
Flexural Modulus	3380	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	146	°C	ASTM D648
1.8 MPa, not annealed	141	°C	ASTM D648
RTI	93.3	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	HB		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0 - 6.0	hr	
Rear Temperature	282 - 310	°C	
Middle Temperature	282 - 310	°C	
Front Temperature	282 - 310	°C	
Processing (Melt) Temp	293 - 321	°C	
Mold Temperature	71.1 - 104	°C	
Injection Rate	Slow-Moderate		
Back Pressure	0.345 - 0.689	MPa	
Screw Speed	40 - 75	rpm	
Cushion	6.35 - 12.7	mm	
Injection instructions			

-20°F Dewpoint

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Recommended distributors for this material

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