Matrixx 50S5302

Polycarbonate

The Matrixx Group, Inc.

Message:

Matrixx 50S5302 is a polycarbonate (PC) material, which contains a 30% glass fiber reinforced material. This product is available in North America and is processed by injection molding. The main characteristics of Matrixx 50S5302 are: flame retardant/rated flame.

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 30% filler by weight		
Forms	Particle		
Processing Method	Injection molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.43	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.10 - 0.30	%	Internal method
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Yield)	114	MPa	ASTM D638
Flexural Modulus	6890	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	152	°C	ASTM D648
1.8 MPa, not annealed	146	°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

Recommended distributors for this material

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