

Matrixx 55S7103

Polycarbonate

The Matrixx Group, Inc.

Message:

Matrixx 55S7103 is a polycarbonate (PC) material, which contains a 10% glass fiber reinforced material. This product is available in North America.

The main features of Matrixx 55S7103 are:

flame retardant/rated flame

Flame Retardant

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 10% filler by weight		
Additive	Flame retardancy		
Features	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	12	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)	62.1	MPa	ASTM D638
Flexural Modulus - Tangent	3310	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	130	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	141	°C	ASTM D648
1.8 MPa, not annealed	138	°C	ASTM D648
RTI	93.3	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		UL 94
2.50 mm	5VA		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
Cushion	6.35 - 12.7	mm
Injection instructions		
-20°F Dewpoint		

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Recommended distributors for this material

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