

# Matrixx 55N5006

Polycarbonate  
The Matrixx Group, Inc.

Message:

Matrixx 55N5006 is a polycarbonate (PC) material. This product is available in North America.  
The main features of Matrixx 55N5006 are:  
flame retardant/rated flame  
Flame Retardant

General Information			
Additive	Flame retardancy		
Features	Flame retardancy		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	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)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Flexural Modulus - Tangent	2240	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	690	J/m	ASTM D256
Dart Drop Impact	> 36.2	J	ASTM D5420
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, not annealed	129	°C	ASTM D648
1.8 MPa, not annealed	127	°C	ASTM D648
RTI	115	°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	
Additional Information			
The value listed as Mold Shrinkage, ASTM D955, was tested in accordance with Matrixx test methods.			
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Rear Temperature	249 - 299	°C	
Middle Temperature	249 - 299	°C	
Front Temperature	249 - 299	°C	
Processing (Melt) Temp	282 - 299	°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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