

Matrixx 54N5006

Polycarbonate

The Matrixx Group, Inc.

Message:

Matrixx 54N5006 is a polycarbonate (PC) material. This product is available in North America and is processed by injection molding.

The main features of Matrixx 54N5006 are:

flame retardant/rated flame

Flame Retardant

General Information			
Additive	Flame retardancy		
Features	Flame retardancy		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.23	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)	0.50 - 0.70	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	60.7	MPa	ASTM D638
Flexural Modulus	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 (1.50 mm)	V-0		UL 94
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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

