

# Starflam P10002E

Polyamide 6

Eurostar Engineering Plastics

## Message:

Starflam P10002E is an Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant Polyamide 6 Injection Molding Resin (known as P1000Z220 or PA6 U2 Z22)

General Information			
UL YellowCard	E340012-100755068		
Additive	Flame Retardant		
Features	Flame Retardant		
	Halogen Free		
	Low (to None) Phosphorus Content		
RoHS Compliance	RoHS Compliant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.17	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage - Flow (24 hr)	0.80 to 1.5	%	ISO 294-4
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress (Break)	75.0	MPa	ISO 527-2
Tensile Strain (Break)	5.0	%	ISO 527-2
Flexural Modulus	3500	MPa	ISO 178
Flexural Stress	105	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact Strength <sup>1</sup> (23°C)	4.0	kJ/m <sup>2</sup>	ISO 180/1A
Unnotched Izod Impact Strength <sup>2</sup> (23°C)	60	kJ/m <sup>2</sup>	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature <sup>3</sup>			
0.45 MPa, Unannealed, 64.0 mm Span	200	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 64.0 mm Span	80.0	°C	ISO 75-2/Af
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.800 mm)	V-0		UL 94
Glow Wire Flammability Index (0.800 mm)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (0.800 mm)	725	°C	IEC 60695-2-13
Injection	Nominal Value	Unit	
Drying Temperature	75.0 to 85.0	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.20	%	

Rear Temperature	230 to 240	°C
Middle Temperature	235 to 245	°C
Front Temperature	240 to 260	°C
Processing (Melt) Temp	240 to 260	°C
Mold Temperature	60.0 to 80.0	°C

**NOTE**

1.	80*10*4
2.	80*10*4
3.	80*10*4

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**Recommended distributors for this material**

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