

Starflam PZ0042E

Polyamide 6
Eurostar Engineering Plastics

Message:

PZ0042E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Reinforced Polyamide 6 Molding Resin (known as PF1004Z222 or PA620GFU9Z22)

General Information			
Filler / Reinforcement	Glass Fiber		
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	1.33	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	0.70 to 0.90	%	Internal Method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	6200	MPa	ISO 527-2/1
Tensile Stress (Break)	95.0	MPa	ISO 527-2/5
Tensile Strain (Break)	3.2	%	ISO 527-2/5
Flexural Modulus ²	6150	MPa	ISO 178
Flexural Stress	160	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³ (23°C)	7.0	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength ⁴ (23°C)	50	kJ/m ²	ISO 179/1eU
Notched Izod Impact Strength ⁵ (23°C)	5.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	45	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷ (1.8 MPa, Unannealed, 100 mm Span)	185	°C	ISO 75-2/Ae
Vicat Softening Temperature	209	°C	ISO 306/B50
RTI Elec	125	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index	500	V	IEC 60112
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-2		UL 94
Glow Wire Flammability Index (2.00 mm)	960	°C	IEC 60695-2-12

Injection	Nominal Value	Unit
Drying Temperature	80.0	°C
Drying Time	4.0	hr
Suggested Max Moisture	0.20	%
Rear Temperature	240 to 250	°C
Middle Temperature	250 to 260	°C
Front Temperature	250 to 270	°C
Processing (Melt) Temp	250 to 270	°C
Mold Temperature	50.0 to 90.0	°C

NOTE

- | | |
|----|-----------------|
| 1. | Tensile Bar |
| 2. | 2.0 mm/min |
| 3. | 80*10*4 sp=62mm |
| 4. | 80*10*4 sp=62mm |
| 5. | 80*10*4 |
| 6. | 80*10*4 |
| 7. | 120*10*4 |

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