

# Starflam

## Starflam PZ0042E

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

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
<b>PHYSICAL</b>			
Density	g/cm <sup>3</sup>	ISO 1183	1.33
Mold Shrinkage on Tensile Bar, flow	%	E2P Method	0.7 - 0.9
<b>MECHANICAL</b>			
Flexural Modulus, 2 mm/min	MPa	ISO 178	6150
Flexural Stress, break, 2 mm/min	MPa	ISO 178	160
Tensile Modulus, 1 mm/min	MPa	ISO 527	6200
Tensile Strain, break, 5 mm/min	%	ISO 527	3.2
Tensile Stress, break, 5 mm/min	MPa	ISO 527	95
<b>IMPACT</b>			
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m <sup>2</sup>	ISO 179/1eU	50
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	kJ/m <sup>2</sup>	ISO 179/1eA	7
Izod Impact, notched 80*10*4 +23°C	kJ/m <sup>2</sup>	ISO 180/1A	5
Izod Impact, unnotched 80*10*4 +23°C	kJ/m <sup>2</sup>	ISO 180/1U	45
<b>THERMAL</b>			
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Ae	185
Relative Temp Index, Elec	°C	UL 746B	125
Vicat Softening Temp, Rate B/50	°C	ISO 306	209
<b>FLAME CHARACTERISTICS</b>			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	2
UL Recognized, 94V-2 Flame Class Rating	mm	UL 94	0.75
<b>ELECTRICAL</b>			
Comparative Tracking Index	V	IEC 60112	500

Source RJF, last update 01-07-2010

(1) Typical values for natural color unless specified otherwise. Do not constitute a specification. Significant variations are possible for colors

Starflam, Staramide and Starpylen are registered trademarks of EUROSTAR Engineering Plastics

All information, recommendation or advice given by Eurostar Engineering Plastics Company, or any of its subsidiaries, affiliates or authorized representatives, is given in good faith. Eurostar Engineering Plastics makes no warranty or guarantee, express or implied about the information provided. Each user of the products shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its own particular purpose. Because actual use of the products by the user is beyond the control of Eurostar Engineering Plastics, its subsidiaries and affiliates, such use is in the exclusive responsibility of the user. Eurostar Engineering Plastics cannot be held responsible respectively liable for any loss incurred through the use of the products. Information, recommendations and/or advice are neither made to infringe on any patents, nor to grant a license under any patent or intellectual property right of Eurostar Engineering Plastics or any of its subsidiaries or affiliated companies, nor to grant the right to file for any patent protection.

# Starflam

## Starflam PZ0042E

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

PARAMETER	Setting	Unit
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.2	%
Mold Temperature	50 - 90	°C
Rear - Zone 1 Temperature	240 - 250	°C
Middle - Zone 2 Temperature	250 - 260	°C
Front - Zone 3 Temperature	250 - 270	°C
Melt Temperature	250 - 270	°C

PROCESSING PARAMETERS : see above typical injection molding conditions.

DRYING : is not essential when material is delivered in sealed bags with moisture content below 0.2 %.

BARRELS, SCREWS, MOULDS : use wear resisting steel or alloy such as bimetallic cylinders, nitrided screws.

USE OF REGRIND : the properties of the component should be checked in order to ascertain the maximum acceptable level of regrind.

SAFETY : please refer to Material Safety Datasheet.

Source RJF, last update 01-07-2010

(1) Typical values for natural color unless specified otherwise. Do not constitute a specification. Significant variations are possible for colors

Starflam, Staramide and Starpylen are registered trademarks of EUROSTAR Engineering Plastics

All information, recommendation or advice given by Eurostar Engineering Plastics Company, or any of its subsidiaries, affiliates or authorized representatives, is given in good faith. Eurostar Engineering Plastics makes no warranty or guarantee, express or implied about the information provided. Each user of the products shall convince himself, through all available sources (including finished product testing in its appropriate environment) of the suitability of the products supplied for its own particular purpose. Because actual use of the products by the user is beyond the control of Eurostar Engineering Plastics, its subsidiaries and affiliates, such use is in the exclusive responsibility of the user. Eurostar Engineering Plastics cannot be held responsible respectively liable for any loss incurred through the use of the products. Information, recommendations and/or advice are neither made to infringe on any patents, nor to grant a license under any patent or intellectual property right of Eurostar Engineering Plastics or any of its subsidiaries or affiliated companies, nor to grant the right to file for any patent protection.