

Starflam

Starflam PF0057E

DESCRIPTION Starflam PF0057E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding (also known as PF1005Z270)

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
PHYSICAL			
Density	g/cm ³	ISO 1183	1.39
Mold Shrinkage, flow, 24 hrs (5)	%	ISO 294	0.1 - 0.3
Mold Shrinkage, xflow, 24 hrs (5)	%	ISO 294	0.9 - 1.3
MECHANICAL			
Flexural Modulus	MPa	ISO 178	8000
Flexural Stress	MPa	ISO 178	210
Tensile Modulus, 1 mm/min	MPa	ISO 527	9500
Tensile Strain, break	%	ISO 527	3
Tensile Stress, break	MPa	ISO 527	145
IMPACT			
Izod Impact, notched 80*10*4 +23°C	kJ/m ²	ISO 180/1A	10
Izod Impact, unnotched 80*10*4 +23°C	kJ/m ²	ISO 180/1U	54
THERMAL			
Ball Pressure Test, approximate maximum	°C	IEC 60695-10-2	200
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	°C	ISO 75/Af	205
Relative Temp Index, Elec	°C	UL 746B	140
Relative Temp Index, Mech w/impact	°C	UL 746B	105
Relative Temp Index, Mech w/o impact	°C	UL 746B	140
Thermal Conductivity	W/m-°C	ISO 8302	0.3
FLAME CHARACTERISTICS			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	0.8
Glow Wire Ignitability Temperature, 1.0 mm	°C	IEC 60695-2-13	775
Glow Wire Ignitability Temperature, 1.5 mm	°C	IEC 60695-2-13	775
Glow Wire Ignitability Temperature, 3.0 mm	°C	IEC 60695-2-13	800
UL Recognized, 94V-0 Flame Class Rating	mm	UL 94	0.8
ELECTRICAL			
Comparative Tracking Index	V	IEC 60112	600

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 PF0057E

DESCRIPTION Starflam PF0057E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding (also known as PF1005Z270)

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
High Ampere Arc Ign, surface {PLC}	PLC Code	UL 746A	0
Hot Wire Ignition {PLC}	PLC Code	UL 746A	0

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 PF0057E

DESCRIPTION Starflam PF0057E is a Halogen Free and Red Phosphorous Free, Flame Retardant, Glass Fiber Reinforced, Polyamide 6 Injection Molding (also known as PF1005Z270)

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 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.