

Starflam

Starflam B28UL

DESCRIPTION Starflam B28UL is Unfilled Halogen Free and Red Phosphorous Free Flame Retardant Polyamide 6 Injection Molding Resin

Polyamide 6 Injection Molding Resin					
PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded		
PHYSICAL					
Density	g/cm^3	ISO 1183	1.13		
Moisture Absorption (23°C / 50% RH)	%	ISO 62	2.6		
Mold Shrinkage on Tensile Bar, flow	%	E2P Method	1.2 - 1.6		
MECHANICAL					
Flexural Modulus, 2 mm/min	MPa	ISO 178	3000		
Flexural Stress, yield, 2 mm/min	MPa	ISO 178	110		
Hardness, Rockwell R	-	ISO 2039-2	122		
Tensile Modulus, 1 mm/min	MPa	ISO 527	3200		
Tensile Strain, break, 50 mm/min	%	ISO 527	4.5		
Tensile Strain, yield, 50 mm/min	%	ISO 527	3.9		
Tensile Stress, break, 50 mm/min	MPa	ISO 527	80		
Tensile Stress, yield, 50 mm/min	MPa	ISO 527	80		
IMPACT					
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eU	70		
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eA	4		
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eU	50		
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eA	4		
Izod Impact, notched 80*10*4 +23°C	kJ/m^2	ISO 180/1A	4		
Izod Impact, notched 80*10*4 -20°C	kJ/m^2	ISO 180/1A	4		
Izod Impact, notched 80*10*4 -30°C	kJ/m^2	ISO 180/1A	4		
Izod Impact, notched 80*10*4 -40°C	kJ/m^2	ISO 180/1A	3		
THERMAL					
Ball Pressure Test, 125°C +/- 2°C	-	IEC 60695-10-2	PASSES		
CTE, 23°C to 60°C, flow	1/°C	ISO 11359-2	6.00E-05		
CTE, 23°C to 60°C, xflow	1/°C	ISO 11359-2	7.80E-05		
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Ae	68		
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Be	180		
Relative Temp Index, Elec	°C	UL 746B	130		

Source RJF, last update 01-07-2010

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.

⁽¹⁾ Typical values for natural color unless specified otherwise. Do no constitute a specification. Significant variations are possible for colors



Starflam

Starflam B28UL

DESCRIPTION Starflam B28UL is Unfilled Halogen Free and Red Phosphorous Free Flame Retardant Polyamide 6 Injection Molding Resin

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
Relative Temp Index, Mech w/impact	°C	UL 746B	90
Relative Temp Index, Mech w/o impact	°C	UL 746B	100
Thermal Conductivity	W/m-°C	ISO 8302	0.29
Vicat Softening Temp, Rate B/120	°C	ISO 306	200
Vicat Softening Temp, Rate B/50	°C	ISO 306	202
FLAME CHARACTERISTICS			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	2
Oxygen Index (LOI)	%	ISO 4589	25
UL Recognized, 94V-2 Flame Class Rating	mm	UL 94	0.75
ELECTRICAL			
Comparative Tracking Index	V	IEC 60112	600
Comparative Tracking Index, M	V	IEC 60112	600
Dielectric Strength, in oil, 3.2 mm	kV/mm	IEC 60243-1	16
Dissipation Factor, 1 MHz	-	IEC 60250	0.0182
Dissipation Factor, 50/60 Hz	-	IEC 60250	0.0087
Relative Permittivity, 1 MHz	-	IEC 60250	3
Relative Permittivity, 50/60 Hz	-	IEC 60250	3.1
Surface Resistivity, ROA	Ohm	IEC 60093	>1.E+15
Volume Resistivity	Ohm-cm	IEC 60093	>1.E+16

Source RJF, last update 01-07-2010

(1) Typical values for natural color unless specified otherwise. Do no 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 B28UL

DESCRIPTION Starflam B28UL is Unfilled Halogen Free and Red Phosphorous Free Flame Retardant Polyamide 6 Injection Molding Resin

PARAMETER	Setting	Unit
Drying Temperature	75 - 85	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.2	%
Mold Temperature	60 - 80	°C
Rear - Zone 1 Temperature	230 - 240	°C
Middle - Zone 2 Temperature	240 - 250	°C
Front - Zone 3 Temperature	250 - 260	°C
Melt Temperature	250 - 260	°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.

(1) Typical values for natural color unless specified otherwise. Do no 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.