

Starflam B28UL

Polyamide 6
Eurostar Engineering Plastics

Message:

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

General Information			
UL YellowCard	E340012-100750682		
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	1.13	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.2 to 1.6	%	Internal Method
Water Absorption (Equilibrium, 23°C, 50% RH)	2.6	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	122		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3200	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/50
Yield	80.0	MPa	
Break	80.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	3.9	%	
Break	4.5	%	
Flexural Modulus ²	3000	MPa	ISO 178
Flexural Stress	110	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU
-30°C	50	kJ/m ²	
23°C	70	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A

-40°C	3.0	kJ/m ²	
-30°C	4.0	kJ/m ²	
-20°C	4.0	kJ/m ²	
23°C	4.0	kJ/m ²	
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁶			
0.45 MPa, Unannealed, 100 mm Span	180	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	68.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	202	°C	ISO 306/B50
--	200	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	6.0E-5	cm/cm/°C	
Transverse : 23 to 60°C	7.8E-5	cm/cm/°C	
Thermal Conductivity	0.29	W/m/K	ISO 8302
RTI Elec	130	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	100	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+16	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	16	kV/mm	IEC 60243-1
Relative Permittivity			IEC 60250
50 Hz	3.10		
60 Hz	3.10		
1 MHz	3.00		
Dissipation Factor			IEC 60250
50 Hz	8.7E-3		
60 Hz	8.7E-3		
1 MHz	0.018		
Comparative Tracking Index			IEC 60112
--	600	V	
Solution B	600	V	
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
Oxygen Index	25	%	ISO 4589-2
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	240 to 250	°C
Front Temperature	250 to 260	°C
Processing (Melt) Temp	250 to 260	°C
Mold Temperature	60.0 to 80.0	°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.	120*10*4	
7.	125°C ±2°C	
8.	ROA	

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Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519
Phone: +86 13424755533
Email: sales@su-jiao.com
No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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