

Starflam AFR200Y

Polyamide 66
Eurostar Engineering Plastics

Message:

Starflam AFR200Y is Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant, Polyamide 66 Injection Molding Resin

General Information			
UL YellowCard	E340012-100755276		
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	1.17	g/cm ³	ISO 1183
Molding Shrinkage - Flow ¹	1.1 to 1.5	%	Internal Method
Water Absorption			ISO 62
Saturation, 23°C	7.5	%	
Equilibrium, 23°C, 50% RH	1.1	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	118		ISO 2039-2
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3400	MPa	ISO 527-2/1
Tensile Stress			ISO 527-2/5
Yield	80.0	MPa	
Break	78.0	MPa	
Tensile Strain			ISO 527-2/5
Yield	4.8	%	
Break	9.0	%	
Flexural Modulus ²	3300	MPa	ISO 178
Flexural Stress	120	MPa	ISO 178
Taber Abrasion Resistance (1000 Cycles, 1000 g, CS-17 Wheel)	24.0	mg	Internal Method
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength ³			ISO 179/1eA
-30°C	3.0	kJ/m ²	
23°C	3.0	kJ/m ²	
Charpy Unnotched Impact Strength ⁴			ISO 179/1eU

-30°C	70	kJ/m ²	
23°C	> 100	kJ/m ²	
Notched Izod Impact Strength ⁵			ISO 180/1A
-40°C	3.0	kJ/m ²	
-30°C	3.0	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	210	°C	ISO 75-2/Be
1.8 MPa, Unannealed, 100 mm Span	90.0	°C	ISO 75-2/Ae
Vicat Softening Temperature			
--	247	°C	ISO 306/B50
--	245	°C	ISO 306/B120
Ball Pressure Test ⁷ (125°C)	Pass		IEC 60695-10-2
CLTE			ISO 11359-2
Flow : 23 to 60°C	8.5E-5	cm/cm/°C	
Transverse : 23 to 60°C	8.5E-5	cm/cm/°C	
RTI Elec	130	°C	UL 746
RTI Imp	90.0	°C	UL 746
RTI Str	115	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity ⁸	> 1.0E+15	ohms	IEC 60093
Volume Resistivity	> 1.0E+15	ohms·cm	IEC 60093
Electric Strength (3.20 mm, in Oil)	15	kV/mm	IEC 60243-1
Comparative Tracking Index			IEC 60112
--	600	V	
Solution B	550	V	
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.750 mm)	V-0		UL 94
Glow Wire Flammability Index (1.00 mm)	960	°C	IEC 60695-2-12
Oxygen Index	29	%	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	260 to 270	°C	
Middle Temperature	265 to 280	°C	
Front Temperature	270 to 280	°C	
Processing (Melt) Temp	265 to 280	°C	
Mold Temperature	60.0 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.	120*10*4
7.	125°C ±2°C
8.	ROA

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