Starflam® AFR200Y

polyamide 66



Starflam AFR200Y is an unfilled, flame retardant, heat stabilized PA66 for injection molded applications. The material is halogen free and red phosphorus free.

General					
Additive	Flame Retarding Agent	Heat Stabilizer Flame Retardant		Release agent Halogen Content, None	
Features	Bromine Free				
Appearance	Natural Color				
Forms	• Pellets				
Processing Method	Injection Molding				
Physical		dry	cond.	Unit	Test Standard
Density		1.18	-	g/cm³	ISO 1183
Molding Shrinkage					ISO 294-4
Across Flow: 23°C, 2.00 m	m	1.7	*	%	
Flow: 23°C, 2.00 mm		1.8	*	%	
Water Absorption					ISO 62
23°C, 24 hr		1.9	*	%	
Equilibrium, 23°C, 50% RH		1.1	*	%	
Water Absorption, Saturation,	23°C	7.5		%	ISO 62
Mechanical		dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)		3500	1900	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)		80	49	MPa	ISO 527-2
Tensile Stress (Break, 23°C)		77	49	MPa	ISO 527-2
Tensile Strain (Yield, 23°C)		4	16	%	ISO 527-2
Tensile Strain (Break, 23°C)		7.8	16	%	ISO 527-2
Flexural Modulus (23°C)		3700	1500	MPa	ISO 178
Flexural Strength (23°C)		102	37	MPa	ISO 178
Impact		dry	cond.	Unit	Test Standard
Charpy Notched Impact Streng	th				ISO 179/1eA
+23°C		4.4	6.5	kJ/m²	
-30°C		4.5	4.3	kJ/m²	
-40°C		4.5	4	kJ/m²	
Charpy Unnotched Impact Stre	ength				ISO 179/1eU
+23°C		120	185	kJ/m²	
-30°C		120	150	kJ/m²	
-40°C		106	118	kJ/m²	

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Notched Izod Impact Strength				ISO 180/1A
+23°C	4.8	6.1	kJ/m²	
-30°C	4.9	5.4	kJ/m²	
-40°C	5	5.4	kJ/m²	
Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	81	-	°C	
0.45 MPa, Unannealed	228	-	°C	
Melting Temperature	260	*	°C	ISO 11357-3
RTI Elec				UL 746
0.750 mm	130		°C	
1.50 mm	130		°C	
3.00 mm	130		°C	
RTI Imp				UL 746
0.750 mm	90		°C	
1.50mm	90		°C	
3.00 mm	90		°C	
RTI Str				UL 746
0.750 mm	115		°C	
1.50 mm	115		°C	
3.00 mm	115		°C	
Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	31	28	kV/mm	IEC 60243
High Amp Arc Ignition (HAI)				UL 746
1.50 mm	PLC 3			
Flammability	dry	cond.	Unit	Test Standard
Flammability				UL 94
0.400 mm	V-0			
0.750 mm	V-0			
1.50 mm	V-0			
3.00 mm	V-0			
Oxygen index	31	*	%	EN ISO 4589-2

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Value	Unit	
75 - 85	°C	
4	h	
0.2	%	
260 - 270	°C	
265 - 280	°C	
270 - 280	°C	
265 - 280	°C	
60 - 90	°C	
	75 - 85 4 0.2 260 - 270 265 - 280 270 - 280 265 - 280	75 - 85 °C 4 h 0.2 % 260 - 270 °C 265 - 280 °C 270 - 280 °C 265 - 280 °C



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