STARFLAM

AFR200Y



DESCRIPTION

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

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
PHYSICAL			
Density	g/cm^3	ISO 1183	1.17
Moisture Absorption (23°C / 50% RH)	%	ISO 62	1.1
Mold Shrinkage on Tensile Bar, flow	%	E2P Method	1.1 - 1.5
Water Absorption, (23°C/sat)	%	ISO 62	7.5
MECHANICAL			
Flexural Modulus, 2 mm/min	MPa	ISO 178	3300
Flexural Stress, yield, 2 mm/min	MPa	ISO 178	120
Tensile Modulus, 1 mm/min	MPa	ISO 527	3400
Tensile Strain, break, 5 mm/min	%	ISO 527	9
Tensile Strain, yield, 5 mm/min	%	ISO 527	4.8
Tensile Stress, break, 5 mm/min	MPa	ISO 527	78
Tensile Stress, yield, 5 mm/min	MPa	ISO 527	80
IMPACT			
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eU	>100
Charpy 23°C, V-notch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eA	3
Charpy -30°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eU	70
Charpy -30°C, V-notch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eA	3
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

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

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ІМРАСТ			
Izod Impact, notched 80*10*4 -30°C	kJ/m^2	ISO 180/1A	3
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	8.50E-05
CTE, 23°C to 60°C, xflow	1/°C	ISO 11359-2	8.50E-05
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Ae	90
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Be	210
Relative Temp Index, Elec	°C	UL 746B	130
Relative Temp Index, Mech w/impact	°C	UL 746B	90
Relative Temp Index, Mech w/o impact	°C	UL 746B	115
FLAME CHARACTERISTICS			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	1
Oxygen Index (LOI)	%	ISO 4589	29
UL Recognized, 94V-0 Flame Class Rating	mm	UL 94	0.4
ELECTRICAL			
Comparative Tracking Index	V	IEC 60112	600
Dielectric Strength, in oil, 3.2 mm	kV/mm	IEC 60243-1	15
Volume Resistivity	Ohm-cm	IEC 60093	>1.E+15

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PARAMETER	SETTING	UNIT
Drying Temperature	75 - 85	°C
Drying Time	4 - 6	hrs
Maximum Moisture Content	0.2	%
Mold Temperature	60 - 90	°C
Rear - Zone 1 Temperature	260 - 270	°C
Middle - Zone 2 Temperature	265 - 280	°C
Front - Zone 3 Temperature	270 - 280	°C
Melt Temperature	265 - 280	°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

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