STARFLAM

AFR460B

DESCRIPTION Starflam AFR460B is a Flame Retardant Glass Fiber Reinforced Polyamide 66 Injection Molding Resin

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
PHYSICAL			
Density	g/cm^3	ISO 1183	1.58
Mold Shrinkage on Tensile Bar, flow	%	E2P Method	0.2 - 0.3
Water Absorption, (23°C/sat)	%	ISO 62	4
MECHANICAL			
Flexural Modulus, 2 mm/min	MPa	ISO 178	9300
Flexural Stress, break, 2 mm/min	MPa	ISO 178	190
Hardness, Rockwell L		ISO 2039-2	108
Tensile Modulus, 1 mm/min	MPa	ISO 527	9500
Tensile Strain, break, 5 mm/min	%	ISO 527	2
Tensile Stress, break, 5 mm/min	MPa	ISO 527	165
IMPACT			
Charpy 23°C, Unnotch Edgew 80*10*4 sp=62mm	kJ/m^2	ISO 179/1eU	60
Izod Impact, notched 80*10*4 +23°C	kJ/m^2	ISO 180/1A	8
Izod Impact, notched 80*10*4 -20°C	kJ/m^2	ISO 180/1A	7
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	2.30E-05
CTE, 23°C to 60°C, xflow	1/°C	ISO 11359-2	7.20E-05
HDT/Ae, 1.8 MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Ae	248

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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PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
THERMAL			
HDT/Be, 0.45MPa Edgew 120*10*4 sp=100mm	°C	ISO 75/Be	262
Relative Temp Index, Elec	°C	UL 746B	65
Relative Temp Index, Mech w/impact	°C	UL 746B	65
Relative Temp Index, Mech w/o impact	°C	UL 746B	65
Vicat Softening Temp, Rate B/120	°C	ISO 306	258
FLAME CHARACTERISTICS			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	2
Oxygen Index (LOI)	%	ISO 4589	31
UL Recognized, 94V-0 Flame Class Rating	mm	UL 94	0.75
ELECTRICAL			
Comparative Tracking Index	V	IEC 60112	250

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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	270 - 280	˚C
Front – Zone 3 Temperature	270 - 285	˚C
Melt Temperature	270 - 285	˚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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