STARFLAM

R10002E



DESCRIPTION

Starflam R10002E is an Unfilled, Halogen Free and Red Phosphorous Free, Flame Retardant, Polyamide 66 / Polyamide 6 Injection Molding Resin (also known as Starflam R1000Z220EM)

PROPERTY (1)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
PHYSICAL			
Density	g/cm^3	ISO 1183	1.17
Mold Shrinkage on Tensile Bar, flow	%	E2P Method	0.8 - 1.5
MECHANICAL			
Flexural Modulus, 2 mm/min	MPa	ISO 178	3500
Flexural Stress	MPa	ISO 178	105
Tensile Modulus, 1 mm/min	MPa	ISO 527	3400
Tensile Strain, break	%	ISO 527	5
Tensile Stress, yield	MPa	ISO 527	75
IMPACT			
Izod Impact, notched 80*10*4 +23°C	kJ/m^2	ISO 180/1A	4
Izod Impact, unnotched 80*10*4 +23°C	kJ/m^2	ISO 180/1U	60
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	°C	ISO 75/Af	80
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	°C	ISO 75/Bf	200
FLAME CHARACTERISTICS			
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	0.8
Glow Wire Ignitability Temperature, 0.8 mm	°C	IEC 60695-2-13	750
UL Recognized, 94V-0 Flame Class Rating	mm	UL 94	0.4 (natural)

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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PARAMETER	SETTING	UNIT
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
Drying Temperature	75 - 85	°C
Drying Time	4 - 6	hrs

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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