STARFLAM

RF0057E



DESCRIPTION

Starflam RF0057E is a Halogen Free and Red Phosphorous Free Flame Retardant, Glass Fiber Reinforced, Polyamide 66 Injection Molding Resin (also known as RF1005Z270)

PROPERTY (I)	UNIT	STANDARD	TYPICAL VALUE (1) Dry As Moulded
PHYSICAL			
Density	g/cm^3	ISO 1183	1.39
Moisture Absorption (23°C, 50% RH, 24h)	%	ISO 62	0.2
Mold Shrinkage, flow, 24 hrs (5)	%	ISO 294	0.15 - 0.25
Mold Shrinkage, xflow, 24 hrs (5)	%	ISO 294	1 - 1.2
Water Absorption, (23°C/24hr)	%	ISO 62-1	2.64
MECHANICAL			
Flexural Modulus, 2 mm/min	MPa	ISO 178	8000
Flexural Stress, yield, 2 mm/min	MPa	ISO 178	190
Tensile Modulus, 1 mm/min	MPa	ISO 527	9400
Tensile Strain, break, 5 mm/min	%	ISO 527	2.4
Tensile Stress, break, 5 mm/min	MPa	ISO 527	130
IMPACT			
Izod Impact, notched 80*10*4 +23°C	kJ/m^2	ISO 180/1A	7
Izod Impact, unnotched 80*10*4 +23°C	kJ/m^2	ISO 180/1U	45
THERMAL			
Ball Pressure Test, approximate maximum	°C	IEC 60695-10-2	240
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	°C	ISO 75/Af	240
Relative Temp Index, Elec	°C	UL 746B	140
Relative Temp Index, Mech w/impact	°C	UL 746B	110

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	D TYPICAL VALUE (1) Dry As Moulded	
THERMAL				
Relative Temp Index, Mech w/o impact	°C	UL 746B	140	
FLAME CHARACTERISTICS				
Glow Wire Flammability Index 960°C, passes at	mm	IEC 60695-2-12	0.4	
Glow Wire Ignitability Temperature, 0.4 mm	°C	IEC 60695-2-13	775	
Glow Wire Ignitability Temperature, 1.0 mm	°C	IEC 60695-2-13	775	
Glow Wire Ignitability Temperature, 1.5 mm	°C	IEC 60695-2-13	775	
Glow Wire Ignitability Temperature, 3.0 mm	°C	IEC 60695-2-13	825	
UL Recognized, 94-5VA Rating (3)	mm	UL 94	1.6	
UL Recognized, 94V-0 Flame Class Rating	mm	UL 94	0.4	
ELECTRICAL				
Comparative Tracking Index	V	IEC 60112	600	
Dielectric Strength, in air, 1.6 mm	kV/mm	ASTM D 149	16	
High Ampere Arc Ign, surface {PLC}	PLC Code	UL 746A	0	
Hot Wire Ignition (PLC)	PLC Code	UL 746A	0	
Volume Resistivity	Ohm-cm	ASTM D 257	1.00E+12	

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PARAMETER	SETTING	UNIT
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Mold Temperature	60 - 100	°C
Rear - Zone 1 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	270 - 280	°C
Front - Zone 3 Temperature	270 - 280	°C
Melt Temperature	270 - 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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