

Starflam® RF0097P

copolyamide 66/6



Starflam RF0097P is a glass fiber reinforced, flame retardant PA66/6 for injection molded applications. The material is halogen free and red phosphorus free.

General

Regional Availability	• North America	• Europe	
Additive	• Flame Retarding Agent	• Heat Stabilizer	• Release agent
Features	• Flame Retardant	• Halogen Content, None	
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Injection Molding		

Physical

	dry	cond.	Unit	Test Standard
Density	1.59	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	0.6	*	%	
Flow : 23°C, 2.00 mm	0.4	*	%	
Water Absorption				ISO 62
23°C, 24 hr	1	*	%	
Equilibrium, 23°C, 50% RH	1.2	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	15800	10900	MPa	ISO 527-2
Tensile Stress (Break, 23°C)	172	117	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	2.2	3.3	%	ISO 527-2
Flexural Modulus (23°C)	16700	11400	MPa	ISO 178
Flexural Strength (23°C)	280	192	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	13	14	kJ/m ²	
-30°C	14	13	kJ/m ²	
-40°C	14	13	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	68	78	kJ/m ²	
-30°C	68	67	kJ/m ²	
-40°C	63	64	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	13	14	kJ/m ²	

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-30°C	12	13	kJ/m²	
-40°C	12	13	kJ/m²	
Unnotched Izod Impact Strength, +23°C	50	-	kJ/m²	ISO 180/1U

Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	243	234	°C	
0.45 MPa, Unannealed	255	253	°C	
RTI Elec				UL 746
0.800 mm	150		°C	
1.50 mm	150		°C	
3.00 mm	150		°C	
RTI Imp				UL 746
0.800 mm	110		°C	
1.50mm	110		°C	
3.00 mm	110		°C	
RTI Str				UL 746
0.800 mm	150		°C	
1.50 mm	150		°C	
3.00 mm	150		°C	

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	29	28	kV/mm	IEC 60243
Comparative Tracking Index (3.00 mm)	600		V	IEC 60112
High Amp Arc Ignition (HAI)				UL 746
0.800 mm	PLC 0		-	
1.50 mm	PLC 0		-	
3.00 mm	PLC 0		-	
Hot-wire Ignition (HWI)				UL 746
0.800 mm	PLC 0		-	
1.50 mm	PLC 0		-	
3.00 mm	PLC 0		-	

Flammability	Value	Unit	Test Standard
Flammability			UL 94
0.800 mm	V-0	-	
1.50 mm	V-0	-	
3.00 mm	V-0	-	
Glow Wire Flammability Index			IEC 60695-2-12

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0.800 mm	960	°C	
1.50 mm	960	°C	
3.00 mm	960	°C	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.800 mm	800	°C	
1.50 mm	825	°C	
3.00 mm	825	°C	

Injection	Value	Unit
Drying Temperature	80	°C
Drying Time	4	h
Suggested Max Moisture	0.2	%
Rear Temperature	265 - 275	°C
Middle Temperature	265 - 275	°C
Front Temperature	270 - 280	°C
Processing (Melt) Temperature	270 - 280	°C
Mold Temperature	60 - 100	°C

