

LNP™ STAT-KON™ EEF42 compound

Polyether Imide

SABIC Innovative Plastics

Message:

LNP STAT-KON* EEF42 is a compound based on Polyetherimide resin containing 10% Carbon Fiber, 20% Glass Fiber. Added features of this material include: Electrically Conductive.

Also known as: LNP* STAT-KON* Compound ECF-1006

Product reorder name: EEF42

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity			ASTM D792
--	1.48	g/cm ³	
--	1.47	g/cm ³	
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10 to 0.30	%	
Across Flow : 24 hr	0.30 to 0.50	%	
Water Absorption			
24 hr, 50% RH	0.14	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.22	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	14800	MPa	ASTM D638
--	14000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	191	MPa	ASTM D638
Yield	179	MPa	ISO 527-2/5
Break ³	183	MPa	ASTM D638
Break	179	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	1.7	%	ASTM D638
Yield	1.5	%	ISO 527-2/5
Break ⁵	1.7	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	13800	MPa	ASTM D790

-- ⁷	13300	MPa	ISO 178
Flexural Strength			ASTM D790
--	248	MPa	
Yield, 50.0 mm Span ⁸	264	MPa	
Break, 50.0 mm Span ⁹	264	MPa	
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	66	J/m	ASTM D256
23°C ¹⁰	7.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	1300	J/m	ASTM D4812
23°C ¹¹	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	11.0	J	ASTM D3763
--	3.00	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹²	214	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	209	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹³	210	°C	ISO 75-2/Af
CLTE			ASTM E831
Flow : -40 to 40°C	3.8E-5	cm/cm/°C	
Transverse : -40 to 40°C	3.3E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+3 to 1.0E+6	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0 to 6.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	343 to 354	°C	
Middle Temperature	354 to 366	°C	
Front Temperature	366 to 377	°C	
Processing (Melt) Temp	360 to 366	°C	
Mold Temperature	121 to 149	°C	
Back Pressure	0.344 to 0.689	MPa	
Screw Speed	60 to 100	rpm	
NOTE			
1.	5.0 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	Type I, 5.0 mm/min		

5.	Type I, 5.0 mm/min
6.	1.3 mm/min
7.	2.0 mm/min
8.	1.3 mm/min
9.	1.3 mm/min
10.	80*10*4
11.	80*10*4
12.	80*10*4 mm
13.	80*10*4 mm

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