

LNP™ STAT-KON™ WEF42I compound

Polybutylene Terephthalate

SABIC Innovative Plastics

Message:

LNP STAT-KON WEF42I is a compound based on PBT resin containing 10% Carbon Fiber, 20% Glass Fiber. Added features of this grade include: High Impact, Electrically Conductive.

Also known as: LNP* STAT-KON* Compound WCF-1006 HI

Product reorder name: WEF42I

General Information			
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
	Glass Fiber,20% Filler by Weight		
Features	Electrically Conductive		
	High Impact Resistance		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.30 to 0.50	%	
Across Flow : 24 hr	1.0 to 3.0	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	21800	MPa	ASTM D638
--	15800	MPa	ISO 527-2/1
Tensile Strength			
Break ²	94.0	MPa	ASTM D638
Break	99.0	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.7	%	ASTM D638
Break	2.6	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	9990	MPa	ASTM D790
-- ⁵	10500	MPa	ISO 178
Flexural Stress			
--	170	MPa	ISO 178
Break, 50.0 mm Span ⁶	126	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	130	J/m	ASTM D256

23°C ⁷	14	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	710	J/m	ASTM D4812
23°C ⁸	46	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	16.6	J	ASTM D3763
--	4.50	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	219	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ⁹	203	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	205	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹⁰	220	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.1E-5	cm/cm/°C	
Transverse : -30 to 30°C	1.3E-4	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	2.0 to 5.0	ohms	ASTM D257
Volume Resistivity	4.0 to 6.0	ohms · cm	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121	°C	
Drying Time	4.0	hr	
Suggested Max Moisture	0.050	%	
Rear Temperature	221 to 232	°C	
Middle Temperature	243 to 254	°C	
Front Temperature	260 to 271	°C	
Processing (Melt) Temp	238 to 266	°C	
Mold Temperature	82.2 to 98.9	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	Type I, 5.0 mm/min		
3.	Type I, 5.0 mm/min		
4.	1.3 mm/min		
5.	2.0 mm/min		
6.	1.3 mm/min		
7.	80*10*4		
8.	80*10*4		
9.	80*10*4 mm		
10.	80*10*4 mm		

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