

LNP™ STAT-KON™ ME006 compound

Polypropylene

SABIC Innovative Plastics

Message:

LNP STAT-KON* ME006 is a compound based on Polypropylene resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.

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

Product reorder name: ME006

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.20 to 0.40	%	
Across Flow : 24 hr	0.70 to 0.90	%	
Water Absorption			
24 hr, 50% RH	0.030	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	17300	MPa	ASTM D638
--	14000	MPa	ISO 527-2/1
Tensile Strength			
Yield ²	58.0	MPa	ASTM D638
Yield	56.0	MPa	ISO 527-2/5
Break ³	57.0	MPa	ASTM D638
Break	55.0	MPa	ISO 527-2/5
Tensile Elongation			
Yield ⁴	0.50	%	ASTM D638
Yield	0.50	%	ISO 527-2/5
Break ⁵	0.50	%	ASTM D638
Break	0.50	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁶	12300	MPa	ASTM D790
-- ⁷	12300	MPa	ISO 178
Flexural Stress			
--	58.0	MPa	ISO 178
Yield, 50.0 mm Span ⁸	78.0	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	42	J/m	ASTM D256
23°C ⁹	4.3	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	83	J/m	ASTM D4812
23°C ¹⁰	4.8	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	10.7	J	ASTM D3763
--	3.40	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	153	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span ¹¹	153	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	132	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span ¹²	125	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	2.3E-5	cm/cm/°C	
Transverse : -30 to 30°C	5.9E-5	cm/cm/°C	
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	10 to 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	82.2	°C	
Drying Time	4.0	hr	
Rear Temperature	193 to 204	°C	
Middle Temperature	216 to 227	°C	
Front Temperature	238 to 249	°C	
Processing (Melt) Temp	227 to 249	°C	
Mold Temperature	32.2 to 48.9	°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.	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.	80*10*4		
10.	80*10*4		

11.	80*10*4 mm
12.	80*10*4 mm

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Recommended distributors for this material

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