

LNP™ STAT-KON™ OE006A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON* OE006A is a compound based on PPS - Branched resin containing 30% Carbon Fiber. Added features of this material include: Electrically Conductive.
Also known as: LNP* STAT-KON* Compound OC-1006
Product reorder name: OE006A

General Information			
UL YellowCard	E121562-101284689		
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Branched Polymer Structure		
	Electrically Conductive		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.44	g/cm ³	ASTM D792, ISO 1183
Molding Shrinkage			
Flow : 24 hr	0.10	%	ASTM D955
Across Flow : 24 hr	0.40	%	ASTM D955, ISO 294-4
Flow : 24 hr	0.080	%	ISO 294-4
Water Absorption			
24 hr, 50% RH	0.020	%	ASTM D570
Equilibrium, 23°C, 50% RH	0.030	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	32800	MPa	ASTM D638
--	25500	MPa	ISO 527-2/1
Tensile Strength			
Break	210	MPa	ASTM D638
Break	204	MPa	ISO 527-2
Tensile Elongation			
Break	1.1	%	ASTM D638
Break	1.0	%	ISO 527-2
Flexural Modulus			
--	23500	MPa	ASTM D790
--	24700	MPa	ISO 178
Flexural Strength			
--	305	MPa	ASTM D790
--	312	MPa	ISO 178

Coefficient of Friction			ASTM D3702 Modified
vs. Itself - Dynamic	1.6		
vs. Itself - Static	1.4		
Wear Factor - Washer	857	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	50	J/m	ASTM D256
23°C ²	5.2	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	440	J/m	ASTM D4812
23°C ³	28	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	3.30	J	ASTM D3763
--	1.70	J	ISO 6603-2
Thermal	Nominal Value	Unit	Test Method
CLTE			
Flow : -40 to 40°C	7.2E-6	cm/cm/°C	ASTM E831
Flow : -40 to 40°C	8.7E-6	cm/cm/°C	ISO 11359-2
Transverse : -40 to 40°C	4.0E-5	cm/cm/°C	ASTM E831
Transverse : -40 to 40°C	4.1E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+6	ohms	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.00 mm, Testing by SABIC)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	121 to 149	°C	
Drying Time	4.0	hr	
Rear Temperature	304 to 316	°C	
Middle Temperature	321 to 332	°C	
Front Temperature	332 to 343	°C	
Processing (Melt) Temp	316 to 321	°C	
Mold Temperature	138 to 166	°C	
Back Pressure	0.172 to 0.344	MPa	
Screw Speed	30 to 60	rpm	
NOTE			
1.	50 mm/min		
2.	80*10*4		
3.	80*10*4		

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