LNP™ STAT-KON™ OEL13I compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON OEL13I is a compound based on PPS-Linear resin containing 15% Carbon Fiber, 5% PTFE. Added features of this grade include: High Impact, Wear Resistant, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound OCL-4013 HI
Product reorder name: OEL13I

General Information			
Filler / Reinforcement	Carbon Fiber,15% Filler by Weight		
Additive	PTFE Lubricant (5%)		
Features	Electrically Conductive Good Wear Resistance High Impact Resistance Linear Polymer Structure Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.37	g/cm³	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	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			
-- [1]	14000	MPa	ASTM D638
--	16600	MPa	ISO 527-2/1
Tensile Strength			
Break [2]	132	MPa	ASTM D638
Break	130	MPa	ISO 527-2/5
Tensile Elongation			
Break [3]	1.8	%	ASTM D638
Break	1.5	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [4]	10500	MPa	ASTM D790
-- [5]	11900	MPa	ISO 178
Flexural Stress			
--	218	MPa	ISO 178
Break, 50.0 mm Span [6]	195	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Notched Izod Impact			
23°C	93	J/m	ASTM D256
23°C [7]	8.9	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	600	J/m	ASTM D4812
23°C [8]	35	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	16.7	J	ASTM D3763
--	3.50	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	273	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [9]	260	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	213	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [10]	212	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	1.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	6.0E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity			
--	2.0 to 4.0	ohms	ASTM D257
--	1.0 to 3.0	ohms	IEC 60093
Volume Resistivity	1.0 to 3.0	ohms·cm	ASTM D257
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.	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

Recommended distributors for this material

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