LNP™ STAT-KON™ OEL36A compound

Branched Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON OEL36A is a compound based on PPS - Branched resin containing 15% PTFE, 30% Carbon Fiber. Added features of this material include: Wear Resistant, Electrically Conductive.
Also known as: LNP* STAT-KON* Compound OCL-4036
Product reorder name: OEL36A

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Additive	PTFE Lubricant (15%)		
Features	Electrically Conductive Good Wear Resistance Lubricated		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.54	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.050 to 0.070	%	
Across Flow : 24 hr	0.50 to 0.70	%	
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]	26600	MPa	ASTM D638
--	25200	MPa	ISO 527-2/1
Tensile Strength			
Yield [2]	170	MPa	ASTM D638
Break [3]	172	MPa	ASTM D638
Break	168	MPa	ISO 527-2/5
Tensile Elongation			
Break [4]	0.90	%	ASTM D638
Break	0.90	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span [5]	20700	MPa	ASTM D790
-- [6]	21600	MPa	ISO 178
Flexural Stress			
--	258	MPa	ISO 178

Break, 50.0 mm Span [7]	225	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			
23°C	41	J/m	ASTM D256
23°C [8]	5.1	kJ/m²	ISO 180/1A
Unnotched Izod Impact			
23°C	400	J/m	ASTM D4812
23°C [9]	22	kJ/m²	ISO 180/1U
Instrumented Dart Impact			
23°C, Total Energy	5.30	J	ASTM D3763
--	2.00	J	ISO 6603-2
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			
0.45 MPa, Unannealed, 3.20 mm	277	°C	ASTM D648
0.45 MPa, Unannealed, 64.0 mm Span [10]	277	°C	ISO 75-2/Bf
1.8 MPa, Unannealed, 3.20 mm	263	°C	ASTM D648
1.8 MPa, Unannealed, 64.0 mm Span [11]	262	°C	ISO 75-2/Af
CLTE			ASTM D696
Flow : -30 to 30°C	8.2E-6	cm/cm/°C	
Transverse : -30 to 30°C	4.1E-5	cm/cm/°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0 to 3.0	ohms	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.	Type I, 5.0 mm/min		
5.	1.3 mm/min		
6.	2.0 mm/min		
7.	1.3 mm/min		
8.	80*10*4		
9.	80*10*4		

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

Recommended distributors for this material

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