

LNP™ STAT-KON™ OEP32 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP STAT-KON* OEP32 is a compound based on PPS - Linear resin containing 10% Carbon Fiber, 15% PTFE/Silicone. Added features of this material include: Electrically Conductive, Wear Resistant.

Also known as: LNP* STAT-KON* Compound OCL-4532 LEX

Product reorder name: OEP32

General Information			
UL YellowCard	E121562-101283798		
Filler / Reinforcement	Carbon Fiber,10% Filler by Weight		
Additive	PTFE + Silicone Lubricant (15%)		
Features	Electrically Conductive		
	Good Wear Resistance		
	Linear Polymer Structure		
	Lubricated		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm³	ASTM D792, ISO 1183
Molding Shrinkage			ASTM D955, ISO 294-4
Flow : 24 hr	0.50 to 0.70	%	
Across Flow : 24 hr	0.60 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			
-- ¹	11200	MPa	ASTM D638
--	11200	MPa	ISO 527-2/1
Tensile Strength			
Break ²	127	MPa	ASTM D638
Break	125	MPa	ISO 527-2/5
Tensile Elongation			
Break ³	1.4	%	ASTM D638
Break	1.4	%	ISO 527-2/5
Flexural Modulus			
50.0 mm Span ⁴	9720	MPa	ASTM D790
-- ⁵	9740	MPa	ISO 178
Flexural Stress			
--	172	MPa	ISO 178
Break, 50.0 mm Span ⁶	168	MPa	ASTM D790
Coefficient of Friction			ASTM D3702 Modified

vs. Itself - Dynamic	0.32		
vs. Itself - Static	0.33		
Wear Factor - Washer	39.0	10 ⁻¹⁰ in ⁵ -min/ft-lb-hr	ASTM D3702 Modified
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			
23°C	37	J/m	ASTM D256
23°C ⁷	5.4	kJ/m ²	ISO 180/1A
Unnotched Izod Impact			
23°C	430	J/m	ASTM D4812
23°C ⁸	24	kJ/m ²	ISO 180/1U
Instrumented Dart Impact			
23°C, Energy at Peak Load	8.40	J	ASTM D3763
--	2.53	J	ISO 6603-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 to 1.0E+4	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.	5.0 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		

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