

LNP™ THERMOCOMP™ OC006 compound

Linear Polyphenylene Sulfide

SABIC Innovative Plastics

Message:

LNP THERMOCOMP OC006 is a compound based on PPS - Linear resin containing Carbon Fiber. Added features include : Electrically Conductive.

Also known as: LNP* THERMOCOMP* Compound OC1006L

Product reorder name: OC006

General Information			
UL YellowCard	E45329-101344679		
Filler / Reinforcement	Carbon fiber reinforced material		
Features	Conductivity		
	Linear polymer structure		
RoHS Compliance	RoHS compliance		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Density	1.42	g/cm ³	ISO 1183
Molding Shrinkage - Flow	0.10	%	Internal method
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	26600	MPa	ISO 527-2/1
Tensile Stress (Break)	213	MPa	ISO 527-2/5
Tensile Strain (Break)	1.0	%	ISO 527-2/5
Flexural Modulus ¹	22500	MPa	ISO 178
Flexural Stress ²			ISO 178
-- ³	298	MPa	ISO 178
-- ⁴	250	MPa	ISO 178
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact ⁵ (23°C)	6.0	kJ/m ²	ISO 180/1A
Unnotched Izod Impact Strength ⁶ (23°C)	30	kJ/m ²	ISO 180/1U
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature ⁷			
0.45 MPa, unannealed, 64.0mm span	280	°C	ISO 75-2/Bf
1.8 MPa, unannealed, 64.0mm span	267	°C	ISO 75-2/Af
Linear thermal expansion coefficient			ISO 11359-2
Flow: 23 to 60°C	6.0E-6	cm/cm/°C	ISO 11359-2
Lateral: 23 to 60°C	4.6E-5	cm/cm/°C	ISO 11359-2
Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+2 - 1.0E+3	ohms	ASTM D257
Injection	Nominal Value	Unit	
Drying Temperature	121 - 149	°C	

Drying Time	4.0	hr
Rear Temperature	304 - 316	°C
Middle Temperature	321 - 332	°C
Front Temperature	332 - 343	°C
Processing (Melt) Temp	316 - 321	°C
Mold Temperature	138 - 166	°C
Back Pressure	0.172 - 0.344	MPa
Screw Speed	30 - 60	rpm

NOTE

1.	2.0 mm/min
2.	2.0 mm/min
3.	Yield
4.	Break
5.	80*10*4
6.	80*10*4
7.	80*10*4 mm

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