

Product Texts

LNP THERMOCOMP OC006 compound is based on linear Polyphenylene Sulfide (PPS) resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E45329-101344679](https://www.ul.com/yellow-card/E45329-101344679)

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	26600	MPa	ISO 527
Stress at break	213	MPa	ISO 527
Strain at break	1	%	ISO 527
Flexural modulus	22500	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	267	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	280	°C	ISO 75-1/-2
Coeff. of linear therm. expansion, parallel	6	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	46	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.0	mm	-

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	1000	Ohm	ASTM D 257
Volume Resistivity	1000000	Ohm*cm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1420	kg/m ³	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Melt temperature	315 - 320	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	305 - 315	°C	-
Zone 2	320 - 330	°C	-
Zone 3	330 - 345	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

Europe

Special Characteristics

Increased electrical conductivity