

**Product Texts**

LNP THERMOCOMP RC008ESS compound is based on Nylon 6/6 resin containing 40% carbon fiber. Added features of this grade include: ; Electrically Conductive, Easy Molding, Heat Stabilized.

UL Yellow Card Link [E45329-101343839](https://www.ul.com/yellow-card/E45329-101343839)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	22900	MPa	ISO 527
Yield stress	254	MPa	ISO 527
Strain at break	2.7	%	ISO 527
Flexural modulus	24600	MPa	ISO 178
Izod impact strength, +23°C, 4mm	70	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	12	kJ/m <sup>2</sup>	ISO 180/1A

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Surface Resistivity	100	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1320	kg/m <sup>3</sup>	ISO 1183

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.25	%	-
Melt temperature	280 - 305	°C	-
Mold temperature	95 - 110	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Special Characteristics**

Increased electrical conductivity