

**Product Texts**

LNP THERMOCOMP RC008 compound is based on Nylon 6/6 resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive.

UL Yellow Card Link [E207780-103093589](https://www.ul.com/yellow-card/E207780-103093589)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	29500	MPa	ISO 527
Stress at break	293	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	28400	MPa	ISO 178
Flexural strength	457	MPa	ISO 178
Izod impact strength, +23°C, 4mm	74	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m <sup>2</sup>	ISO 180/1A

<b>ASTM Data</b>			
Tensile Modulus	30700	MPa	ASTM D 638
Tensile Strength at Break	267	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	23160	MPa	ASTM D 790
Flexural Strength	439	MPa	ASTM D 790
Izod Impact notched, 1/8 in	101	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1110	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	240	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
DTUL @ 264 psi	253	°C	ASTM D 648

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

**Applications**

Automotive

**Special Characteristics**

Increased electrical conductivity

**Regional Availability**

North America, Europe, Asia Pacific