

Product Texts

LNP THERMOCOMP RC008XXQ compound is based on Nylon 6/6 resin containing 40% carbon fiber. Added features of this grade include: Electrically Conductive.

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	40000	MPa	ASTM D 638
Tensile Strength at Break	315	MPa	ASTM D 638
Elongation at Break	1.3	%	ASTM D 638
Flexural Modulus	30100	MPa	ASTM D 790
Izod Impact notched, 1/8 in	105	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	976	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	257	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
ASTM Data			
Surface Resistivity	100	Ohm	ASTM D 257

Other properties	Value	Unit	Test Standard
Density	1320	kg/m ³	ASTM D 792

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

Special Characteristics

Increased electrical conductivity

Applications

Automotive, Building Construction, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific, South and Central America