

Product Texts

LNP THERMOCOMP RC006 compound is based on Nylon 6/6 resin containing 30% carbon fiber. Added features of this grade include: Electrically Conductive.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.1	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	22300	MPa	ISO 527
Stress at break	271	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	21000	MPa	ISO 178
Flexural strength	412	MPa	ISO 178
Izod impact strength, +23°C, 4mm	67	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	27780	MPa	ASTM D 638
Tensile Strength at Break	266	MPa	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	18750	MPa	ASTM D 790
Flexural Strength	406	MPa	ASTM D 790
Izod Impact notched, 1/8 in	96	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1010	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 264 psi	261	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1270	kg/m ³	ISO 1183
Water Absorption, 24hr	0.6	%	ASTM D 570
Density	1280	kg/m ³	ASTM D 792

Characteristics**Processing**

Injection Molding

Regional Availability

Asia Pacific

Special Characteristics

Increased electrical conductivity