

Product Texts

LNP THERMOCOMP LX08411 compound is based on Polyetheretherketone (PEEK) resin containing 45% carbon fiber. Added features of this grade include: Electrically Conductive, High Modulus, Easy Molding.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.24	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ASTM Data			
Tensile Modulus	23510	MPa	ASTM D 638
Tensile Strength at Yield	270	MPa	ASTM D 638
Tensile Strength at Break	270	MPa	ASTM D 638
Elongation at Yield	1.8	%	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	25000	MPa	ASTM D 790
Izod Impact notched, 1/8 in	70	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	775	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
DTUL @ 66 psi	341	°C	ASTM D 648
DTUL @ 264 psi	327	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Water Absorption, 24hr	0.03	%	ASTM D 570
Density	1450	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	4 - 6	h	-
Mold temperature	175 - 190	°C	-
Zone 1	370 - 380	°C	-
Zone 2	380 - 400	°C	-
Zone 3	380 - 400	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Increased electrical conductivity