

**Product Texts**

LNP THERMOCOMP UF009S compound is based on Polyphthalamide (PPA) resin containing 45% glass fiber. Added features of this grade include: Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.5	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.2	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	22700	MPa	ISO 527
Stress at break	253	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	18300	MPa	ISO 178
Flexural strength	386	MPa	ISO 178
Izod impact strength, +23°C, 4mm	82	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	20350	MPa	ASTM D 638
Tensile Strength at Break	242	MPa	ASTM D 638
Elongation at Break	1.7	%	ASTM D 638
Flexural Modulus	18760	MPa	ASTM D 790
Flexural Strength	392	MPa	ASTM D 790
Izod Impact notched, 1/8 in	170	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1340	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
DTUL @ 264 psi	258	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.37	%	Sim. to ISO 62
Density	1640	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.25	%	ASTM D 570
Density	1650	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	315 - 330	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	310 - 320	°C	-
Zone 2	315 - 325	°C	-
Zone 3	325 - 340	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific

**Applications**

Automotive