

Product Texts

LNP THERMOCOMP UF00ASW compound is based on Polyphthalamide (PPA) resin containing 50% glass fiber. Added features of this grade include: Heat Stabilized, Hot Water Moldable.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.75	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	19100	MPa	ISO 527
Yield stress	214	MPa	ISO 527
Yield strain	1.4	%	ISO 527
Stress at break	214	MPa	ISO 527
Strain at break	1.4	%	ISO 527
Flexural modulus	17200	MPa	ISO 178
Flexural strength	324	MPa	ISO 178
Izod impact strength, +23°C, 4mm	45	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Flexural Modulus	17500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	91	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	788	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	281	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	296	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	297	°C	ASTM D 648
DTUL @ 264 psi	285	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.33	%	Sim. to ISO 62
Water Absorption, 24hr	0.27	%	ASTM D 570
Density	1650	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Melt temperature	320 - 350	°C	-
Mold temperature	50 - 105	°C	-
Zone 1	315 - 320	°C	-
Zone 3	325 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.5	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific

Applications

Automotive