

Product Texts

LNP THERMOCOMP UF00BAS compound is based on Polyphthalamide (PPA) resin containing 55% glass fiber. Added features of this grade include: Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	18900	MPa	ISO 527
Stress at break	227	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	15900	MPa	ISO 178
Flexural strength	314	MPa	ISO 178
Izod impact strength, +23°C, 4mm	34	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	19240	MPa	ASTM D 638
Tensile Strength at Break	246	MPa	ASTM D 638
Elongation at Break	1.8	%	ASTM D 638
Flexural Modulus	17300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	82	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	291	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	272	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	293	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	28.1	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	34.9	E-6/K	ASTM D 696
DTUL @ 66 psi	289	°C	ASTM D 648
DTUL @ 264 psi	270	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.21	%	Sim. to ISO 62
Water Absorption, 24hr	0.13	%	ASTM D 570
Density	1640	kg/m ³	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