

Product Texts

LNP THERMOCOMP UF006AS compound is based on Polyphthalamide (PPA) resin containing 30% glass fiber. Added features of this grade include: Heat Stabilized.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	1.0	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	1	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	14800	MPa	ISO 527
Stress at break	167	MPa	ISO 527
Strain at break	1.6	%	ISO 527
Flexural modulus	11200	MPa	ISO 178
Flexural strength	255	MPa	ISO 178
Izod impact strength, +23°C, 4mm	30	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	7	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11600	MPa	ASTM D 638
Tensile Strength at Break	182	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	11530	MPa	ASTM D 790
Flexural Strength	254	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	411	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	260	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	282	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.41	%	Sim. to ISO 62
Density	1450	kg/m ³	ISO 1183
Water Absorption, 24hr	0.22	%	ASTM D 570
Density	1450	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