

Product Texts

LNP THERMOCOMP UF006H compound is based on Polyphthalamide (PPA) resin containing 30% glass fiber. Added features of this grade include: Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.4	%	ISO 294-4, 2577
Molding shrinkage, normal	0.8	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.8	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12400	MPa	ISO 527
Yield stress	208	MPa	ISO 527
Yield strain	2	%	ISO 527
Stress at break	208	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	11000	MPa	ISO 178
Flexural strength	294	MPa	ISO 178
Izod impact strength, +23°C, 4mm	47	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13100	MPa	ASTM D 638
Tensile Strength at Yield	224	MPa	ASTM D 638
Tensile Strength at Break	224	MPa	ASTM D 638
Elongation at Yield	2.2	%	ASTM D 638
Elongation at Break	2.2	%	ASTM D 638
Flexural Modulus	11030	MPa	ASTM D 790
Flexural Strength	289	MPa	ASTM D 790
Izod Impact notched, 1/8 in	106	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	683	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	282	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	293	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	305	°C	ASTM D 648
DTUL @ 264 psi	287	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1520	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1530	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	315 - 330	°C	-
Mold temperature	150 - 170	°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