

Product Texts

LNP THERMOCOMP IF006 compound is based on Nylon 6/12 resin containing 30% glass fiber.

UL Yellow Card Link [E121562-101282574](https://www.ul.com/yellowcard/E121562-101282574)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.1	%	ISO 294-4, 2577
Molding shrinkage, normal	0.7	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.15	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	10300	MPa	ISO 527
Stress at break	178	MPa	ISO 527
Strain at break	3.4	%	ISO 527
Flexural modulus	8830	MPa	ISO 178
Flexural strength	250	MPa	ISO 178
Izod impact strength, +23°C, 4mm	78	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9580	MPa	ASTM D 638
Tensile Strength at Break	182	MPa	ASTM D 638
Elongation at Break	3.7	%	ASTM D 638
Flexural Modulus	9300	MPa	ASTM D 790
Flexural Strength	291	MPa	ASTM D 790
Izod Impact notched, 1/8 in	138	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1240	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
DTUL @ 66 psi	213	°C	ASTM D 648
DTUL @ 264 psi	198	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1290	kg/m ³	ISO 1183
Water Absorption, 24hr	0.17	%	ASTM D 570
Density	1320	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.2	%	-
Melt temperature	270 - 275	°C	-
Mold temperature	65 - 95	°C	-
Zone 1	255 - 265	°C	-
Zone 2	260 - 270	°C	-
Zone 3	270 - 280	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America