

Product Texts

LNP THERMOCOMP QF006 compound is based on Nylon 6/10 resin containing 30% glass fiber.

UL Yellow Card Link [E121562-101281585](https://www.ul.com/yellowcard/E121562-101281585)

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	8800	MPa	ISO 527
Stress at break	153	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	7800	MPa	ISO 178
Flexural strength	219	MPa	ISO 178
Izod impact strength, +23°C, 4mm	71	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	8410	MPa	ASTM D 638
Tensile Strength at Break	150	MPa	ASTM D 638
Elongation at Break	3.6	%	ASTM D 638
Flexural Modulus	7860	MPa	ASTM D 790
Flexural Strength	250	MPa	ASTM D 790
Izod Impact notched, 1/8 in	122	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1120	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	220	°C	ASTM D 648
DTUL @ 264 psi	207	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.33	%	Sim. to ISO 62
Density	1300	kg/m ³	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1310	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	80 - 95	°C	-
Zone 1	250 - 260	°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, Europe, Asia Pacific