

**Product Texts**

LNP THERMOCOMP QF0069 compound is based on Nylon 6/10 resin containing 30% glass fiber. Added features of this grade include: Flame Retardant.

UL Yellow Card Link [E121562-101344701](https://www.ulprospector.com/121562-101344701)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	0.9	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.9	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11000	MPa	ISO 527
Yield stress	145	MPa	ISO 527
Yield strain	1.8	%	ISO 527
Stress at break	145	MPa	ISO 527
Strain at break	1.8	%	ISO 527
Flexural modulus	9000	MPa	ISO 178
Flexural strength	197	MPa	ISO 178
Izod impact strength, +23°C, 4mm	37	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	11030	MPa	ASTM D 638
Tensile Strength at Yield	150	MPa	ASTM D 638
Tensile Strength at Break	150	MPa	ASTM D 638
Elongation at Yield	2	%	ASTM D 638
Elongation at Break	2	%	ASTM D 638
Flexural Modulus	9650	MPa	ASTM D 790
Flexural Strength	199	MPa	ASTM D 790
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	603	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	196	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	218	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	220	°C	ASTM D 648
DTUL @ 264 psi	201	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1560	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.1	%	ASTM D 570
Density	1560	kg/m <sup>3</sup>	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	<b>270 - 280</b>	°C	-
Screw speed	<b>30 - 60</b>	rpm	-
Back pressure	<b>0.2 - 0.3</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Applications**

Automotive

**Regional Availability**

North America