

**Product Texts**

LNP THERMOCOMP UF0067W compound is based on Polyphthalamide (PPA) resin containing 30% glass fiber. Added features of this grade include: Hot Water Moldable, Non-Brominated & Non-Chlorinated Flame Retardant.

UL Yellow Card Link [E207780-103093678](https://www.ulprospector.com/PPA/PPA-GF30)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.35	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.35	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	11300	MPa	ISO 527
Stress at break	128	MPa	ISO 527
Strain at break	1.9	%	ISO 527
Flexural modulus	9130	MPa	ISO 178
Flexural strength	189	MPa	ISO 178
Izod impact strength, +23°C, 4mm	32	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
Tensile Modulus	10540	MPa	ASTM D 638
Tensile Strength at Break	143	MPa	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	10200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	64	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	662	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	277	°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	-
Burning behav. at thickness h	V-1	class	IEC 60695-11-10
Thickness tested	1.0	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	299	°C	ASTM D 648
DTUL @ 264 psi	281	°C	ASTM D 648

Electrical properties	Value	Unit	Test Standard
<b>ASTM Data</b>			
Dielectric Strength, Short Time	29.7	kV/mm	ASTM D 149
Dissipation Factor, 1 MHz	0.0128	-	ASTM D 150
Dielectric Constant, 1 MHz	3.82	-	ASTM D 150

Other properties	Value	Unit	Test Standard
Density	1450	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.2	%	ASTM D 570
Density	1450	kg/m <sup>3</sup>	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	90 - 110	°C	-
Pre-drying - Time	3 - 5	h	-
Melt temperature	280 - 320	°C	-
Mold temperature	90 - 120	°C	-

Zone 1	<b>250 - 280</b>	°C	-
Zone 2	<b>280 - 320</b>	°C	-
Zone 3	<b>280 - 320</b>	°C	-
Screw speed	<b>30 - 100</b>	rpm	-
Back pressure	<b>1 - 5</b>	MPa	-

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Applications**

Automotive

**Regional Availability**

North America, Europe, Asia Pacific