

Product Texts

LNP THERMOCOMP UF0069S compound is based on Polyphthalamide (PPA) resin containing 30% glass fiber. Added features of this grade include: Flame Retardant, Heat Stabilized.

UL Yellow Card Link [E121562-101377968](https://www.ulprospector.com/121562-101377968)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.6	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	12100	MPa	ISO 527
Stress at break	166	MPa	ISO 527
Strain at break	1.7	%	ISO 527
Flexural modulus	12300	MPa	ISO 178
Flexural strength	264	MPa	ISO 178
Izod impact strength, +23°C, 4mm	44	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	9	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	13780	MPa	ASTM D 638
Tensile Strength at Break	181	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	12060	MPa	ASTM D 790
Flexural Strength	258	MPa	ASTM D 790
Izod Impact notched, 1/8 in	90	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	550	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Burning behav. 5V at thickness h	5VA	class	IEC 60695-11-20
Thickness tested	1.5	mm	-

Other properties	Value	Unit	Test Standard
Humidity absorption	0.26	%	Sim. to ISO 62
Density	1650	kg/m ³	ISO 1183
Water Absorption, 24hr	0.24	%	ASTM D 570
Density	1660	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.15	%	-
Melt temperature	300 - 310	°C	-
Mold temperature	140 - 165	°C	-
Zone 1	280 - 295	°C	-
Zone 2	290 - 300	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics

Processing

Injection Molding

Applications

Automotive

Additives

Flame retarding agent

Regional Availability

North America, Europe, Asia Pacific

Special Characteristics

Flame retardant