

**Product Texts**

LNP THERMOCOMP RF0039S compound is based on Nylon 6/6 resin containing 15% glass fiber. Added features of this grade include: Flame Retardant, Heat Stabilized.

UL Yellow Card Link [E121562-101281598](https://www.ul.com/yellow-card/E121562-101281598)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Molding shrinkage, parallel	0.9	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	6300	MPa	ISO 527
Stress at break	98	MPa	ISO 527
Strain at break	2.9	%	ISO 527
Flexural modulus	6000	MPa	ISO 178
Flexural strength	164	MPa	ISO 178
Izod impact strength, +23°C, 4mm	38	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	6060	MPa	ASTM D 638
Tensile Strength at Break	100	MPa	ASTM D 638
Elongation at Break	3	%	ASTM D 638
Flexural Modulus	5170	MPa	ASTM D 790
Flexural Strength	160	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	523	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	219	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
<b>ASTM Data</b>			
DTUL @ 66 psi	251	°C	ASTM D 648
DTUL @ 264 psi	226	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1480	kg/m <sup>3</sup>	ISO 1183
Water Absorption, 24hr	0.49	%	ASTM D 570
Density	1490	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	≤0.25	%	-
Melt temperature	275 - 290	°C	-
Mold temperature	80 - 95	°C	-
Zone 1	265 - 275	°C	-
Zone 2	280 - 295	°C	-
Zone 3	295 - 305	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics**

**Processing**

Injection Molding

**Special Characteristics**

Flame retardant

**Additives**

Flame retarding agent

**Regional Availability**

North America, Europe, Asia Pacific