

Product Texts

LNP THERMOCOMP RF0029S compound is based on Nylon 6/6 resin containing 10% glass fiber. Added features of this grade include: Flame Retardant, Heat Stabilized.

UL Yellow Card Link [E207780-103093596](https://www.ul.com/yellow-card/E207780-103093596)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	1.0	%	ISO 294-4, 2577
Molding shrinkage, normal	1.3	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	1	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6370	MPa	ISO 527
Yield stress	102	MPa	ISO 527
Yield strain	2.4	%	ISO 527
Stress at break	102	MPa	ISO 527
Strain at break	2.4	%	ISO 527
Flexural modulus	5900	MPa	ISO 178
Flexural strength	150	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6890	MPa	ASTM D 638
Tensile Strength at Yield	101	MPa	ASTM D 638
Tensile Strength at Break	101	MPa	ASTM D 638
Elongation at Yield	2.5	%	ASTM D 638
Elongation at Break	2.5	%	ASTM D 638
Flexural Modulus	5510	MPa	ASTM D 790
Flexural Strength	151	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	501	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	219	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	249	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
ASTM Data			
DTUL @ 66 psi	252	°C	ASTM D 648
DTUL @ 264 psi	233	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1480	kg/m ³	ISO 1183
Water Absorption, 24hr	0.5	%	ASTM D 570
Density	1480	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	≤0.25	%	-
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