

Product Texts

LNP THERMOCOMP RF0029 compound is based on Nylon 6/6 resin containing 10% glass fiber. Added feature of this grade include: Flame Retardant.

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

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	0.01	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.013	mm/mm	ASTM D 955
Mechanical properties			
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, 23°C	5900	MPa	ISO 178
Flexural strength	150	MPa	ISO 178
Izod impact strength, +23°C	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C	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			
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
Coeff. of linear therm. expansion, parallel	42	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	76	E-6/K	ISO 11359-1/-2
Burning behav. at 1.5 mm nom. thickn.	V-0	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
Yellow Card available	yes	-	-
ASTM Data			
Coefficient of Thermal Expansion, MD	43.2	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	75.6	E-6/K	ASTM D 696
DTUL @ 66 psi	252	°C	ASTM D 648
DTUL @ 264 psi	233	°C	ASTM D 648
Other properties			
Value			
Density	1480	kg/m ³	ISO 1183
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

Applications

Automotive, Building Construction, Electrical and Electronical, Sports Equipment

Regional Availability

North America, Europe, Asia Pacific, South and Central America