

Product Texts

LNP THERMOCOMP RF009S compound is based on Nylon 6/6 resin containing 45% glass fiber. Added features of this grade include: Heat Stabilized.

UL Yellow Card Link [E121562-101281598](https://www.ulprospector.com/usa/Products/121562-101281598)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.55	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	14000	MPa	ISO 527
Stress at break	214	MPa	ISO 527
Strain at break	2.8	%	ISO 527
Flexural modulus	12000	MPa	ISO 178
Flexural strength	307	MPa	ISO 178
Izod impact strength, +23°C, 4mm	82	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	19	kJ/m ²	ISO 180/1A

ASTM Data			
Tensile Modulus	14140	MPa	ASTM D 638
Tensile Strength at Break	211	MPa	ASTM D 638
Elongation at Break	2.9	%	ASTM D 638
Flexural Modulus	13500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	162	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1400	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	247	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	259	°C	ISO 75-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	1.7	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	25.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	56	E-6/K	ASTM D 696
DTUL @ 66 psi	261	°C	ASTM D 648
DTUL @ 264 psi	253	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.77	%	Sim. to ISO 62
Water Absorption, 24hr	0.54	%	ASTM D 570
Density	1540	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	280 - 305	°C	-
Mold temperature	95 - 110	°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

Regional Availability

North America