

Product Texts

LNP THERMOCOMP* RF005SXS is a compound based on Nylon 66 resin containing 25% Glass Fiber. Added features of this material include: Heat Stabilized.

UL Yellow Card Link [E121562-101281586](https://www.ul.com/yellow-card/E121562-101281586)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.3	%	ISO 294-4, 2577
Molding shrinkage, normal	1.4	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	8600	MPa	ISO 527
Stress at break	139	MPa	ISO 527
Strain at break	2	%	ISO 527
Flexural modulus	8300	MPa	ISO 178
Flexural strength	205	MPa	ISO 178
Izod impact strength, +23°C, 4mm	33	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	6	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	9100	MPa	ASTM D 638
Tensile Strength at Break	132	MPa	ASTM D 638
Elongation at Break	1.9	%	ASTM D 638
Flexural Modulus	7230	MPa	ASTM D 790
Flexural Strength	197	MPa	ASTM D 790
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	485	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	224	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thic kn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
DTUL @ 66 psi	258	°C	ASTM D 648
DTUL @ 264 psi	245	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Density	1340	kg/m ³	ISO 1183
Density	1350	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, Europe, Asia Pacific