

Product Texts

LNP THERMOCOMP RF006SXZ compound is based on Nylon 6/6 resin containing 30% glass fiber. Added features of this grade include: Heat Stabilized.

UL Yellow Card Link [E121562-101281586](https://www.ulprospector.com/usa/Products/121562-101281586)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.4	mm/mm	ASTM D 955
Mold Shrinkage, TD	1.45	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	10700	MPa	ISO 527
Yield stress	195	MPa	ISO 527
Yield strain	3.3	%	ISO 527
Stress at break	194	MPa	ISO 527
Strain at break	3.4	%	ISO 527
Flexural modulus	9250	MPa	ISO 178
Flexural strength	279	MPa	ISO 178
Izod impact strength, +23°C, 4mm	82	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	14	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11420	MPa	ASTM D 638
Tensile Strength at Yield	200	MPa	ASTM D 638
Tensile Strength at Break	200	MPa	ASTM D 638
Elongation at Yield	3.3	%	ASTM D 638
Elongation at Break	3.3	%	ASTM D 638
Flexural Modulus	9510	MPa	ASTM D 790
Izod Impact notched, 1/8 in	134	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1280	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	242	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	258	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn. Thickness tested	HB 1.5	class mm	IEC 60695-11-10 -
ASTM Data			
Coefficient of Thermal Expansion, MD	32	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	64.1	E-6/K	ASTM D 696
DTUL @ 66 psi	260	°C	ASTM D 648
DTUL @ 264 psi	251	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.99	%	Sim. to ISO 62
Density	1400	kg/m ³	ISO 1183
Water Absorption, 24hr	0.67	%	ASTM D 570
Density	1400	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	-

LNP™ THERMOCOMP™ Compound RF006SXZ

PA66-GF30

Saudi Basic Industries Corporation (SABIC)

Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific