

Product Texts

LNP THERMOCOMP RF006XXY compound is based on Nylon 6/6 resin containing 30% glass fiber.

UL Yellow Card Link [E121562-101282588](https://www.ulprospector.com/121562-101282588)

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.5	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955
Mechanical properties			
ISO Data			
Tensile Modulus	11600	MPa	ISO 527
Yield stress	180	MPa	ISO 527
Yield strain	2.7	%	ISO 527
Stress at break	183	MPa	ISO 527
Strain at break	2.6	%	ISO 527
Flexural modulus	9960	MPa	ISO 178
Flexural strength	275	MPa	ISO 178
Izod impact strength, +23°C, 4mm	61	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11380	MPa	ASTM D 638
Tensile Strength at Break	183	MPa	ASTM D 638
Elongation at Break	2.8	%	ASTM D 638
Flexural Modulus	10200	MPa	ASTM D 790
Izod Impact notched, 1/8 in	107	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1100	J/m	ASTM D 256
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	246	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	257	°C	ISO 75-1/-2
Burning behav. at 1.5 mm nom. thickn.	HB	class	IEC 60695-11-10
Thickness tested	1.5	mm	-
ASTM Data			
Coefficient of Thermal Expansion, MD	25	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	67	E-6/K	ASTM D 696
DTUL @ 66 psi	260	°C	ASTM D 648
DTUL @ 264 psi	252	°C	ASTM D 648
Other properties			
Humidity absorption	0.89	%	Sim. to ISO 62
Water Absorption, 24hr	0.64	%	ASTM D 570
Density	1400	kg/m ³	ASTM D 792
Processing Recommendation Injection Molding			
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