

**Product Texts**

LNP THERMOCOMP YF004 compound is based on Thermoplastic Polyester Elastomer (TPE) resin containing 20% glass fiber.

**Processing/Physical Characteristics**

	Value	Unit	Test Standard
<b>ASTM Data</b>			
Mold Shrinkage, MD	0.3	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.7	mm/mm	ASTM D 955

**Mechanical properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Tensile Modulus	2160	MPa	ISO 527
Stress at break	48	MPa	ISO 527
Strain at break	12.7	%	ISO 527
Flexural modulus	310	MPa	ISO 178
Flexural strength	25	MPa	ISO 178
Izod impact strength, +23°C, 4mm	N	kJ/m <sup>2</sup>	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	37	kJ/m <sup>2</sup>	ISO 180/1A

**ASTM Data**

Tensile Modulus	2640	MPa	ASTM D 638
Tensile Strength at Break	47	MPa	ASTM D 638
Elongation at Break	11.9	%	ASTM D 638
Flexural Modulus	1920	MPa	ASTM D 790
Izod Impact notched, 1/8 in	401	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	N	J/m	ASTM D 256

**Thermal properties**

	Value	Unit	Test Standard
<b>ISO Data</b>			
Temp. of deflection under load, 1.80 MPa	129	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	184	°C	ISO 75-1/-2

**ASTM Data**

Coefficient of Thermal Expansion, MD	32	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	121	E-6/K	ASTM D 696
DTUL @ 66 psi	186	°C	ASTM D 648
DTUL @ 264 psi	151	°C	ASTM D 648

**Other properties**

	Value	Unit	Test Standard
Humidity absorption	0.71	%	Sim. to ISO 62
Water Absorption, 24hr	0.71	%	ASTM D 570
Density	1350	kg/m <sup>3</sup>	ASTM D 792

**Processing Recommendation Injection Molding**

	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.1	%	-
Melt temperature	215 - 240	°C	-
Mold temperature	25 - 55	°C	-
Zone 1	180 - 195	°C	-
Zone 2	205 - 215	°C	-
Zone 3	225 - 240	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

**Characteristics****Processing**

Injection Molding

**Regional Availability**

North America, Europe, Asia Pacific