

Product Texts

LNP THERMOCOMP KF005 compound is based on POM (Acetal) copolymer resin containing 25% glass fiber.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.75	mm/mm	ASTM D 955
Mold Shrinkage, TD	2.5	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Stress at break	100	MPa	ISO 527
Strain at break	3.5	%	ISO 527
Flexural modulus	10200	MPa	ISO 178
Izod impact strength, +23°C, 4mm	38	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	12920	MPa	ASTM D 638
Tensile Strength at Break	107	MPa	ASTM D 638
Elongation at Break	4.2	%	ASTM D 638
Izod Impact notched, 1/8 in	69	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	701	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	161	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	164	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	70.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	73.1	E-6/K	ASTM D 696
DTUL @ 66 psi	163	°C	ASTM D 648
DTUL @ 264 psi	162	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.28	%	Sim. to ISO 62
Density	1600	kg/m ³	ISO 1183
Water Absorption, 24hr	0.28	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	80	°C	-
Pre-drying - Time	4	h	-
Melt temperature	200 - 215	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	175 - 190	°C	-
Zone 2	195 - 205	°C	-
Zone 3	210 - 220	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific