

Product Texts

LNP THERMOCOMP KZ002 compound is based on POM (Acetal) copolymer resin containing 10% milled glass.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	3	mm/mm	ASTM D 955
Mold Shrinkage, TD	3	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	3410	MPa	ISO 527
Yield stress	55	MPa	ISO 527
Yield strain	10.1	%	ISO 527
Stress at break	54	MPa	ISO 527
Strain at break	21.3	%	ISO 527
Flexural modulus	2950	MPa	ISO 178
Flexural strength	74	MPa	ISO 178
Izod impact strength, +23°C, 4mm	49	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	4	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	3630	MPa	ASTM D 638
Tensile Strength at Yield	55	MPa	ASTM D 638
Tensile Strength at Break	53	MPa	ASTM D 638
Elongation at Yield	9.6	%	ASTM D 638
Elongation at Break	18.6	%	ASTM D 638
Flexural Modulus	2770	MPa	ASTM D 790
Izod Impact notched, 1/8 in	42	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	816	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ASTM Data			
Coefficient of Thermal Expansion, MD	110	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	110	E-6/K	ASTM D 696
DTUL @ 66 psi	153	°C	ASTM D 648
DTUL @ 264 psi	101	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.26	%	Sim. to ISO 62
Density	1490	kg/m ³	ISO 1183
Water Absorption, 24hr	0.18	%	ASTM D 570
Density	1490	kg/m ³	ASTM D 792

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