

Product Texts

LNP THERMOCOMP JF004L compound is based on Polyethersulfone (PES) resin containing 20% glass fiber. Added features of this grade include: Low Extractables

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.45	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.6	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	6640	MPa	ISO 527
Yield stress	94	MPa	ISO 527
Yield strain	2.1	%	ISO 527
Stress at break	93	MPa	ISO 527
Strain at break	2.1	%	ISO 527
Flexural modulus	6300	MPa	ISO 178
Flexural strength	149	MPa	ISO 178
Izod impact strength, +23°C, 4mm	32	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	5	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	6360	MPa	ASTM D 638
Tensile Strength at Yield	98	MPa	ASTM D 638
Tensile Strength at Break	98	MPa	ASTM D 638
Elongation at Yield	2.7	%	ASTM D 638
Elongation at Break	2.9	%	ASTM D 638
Flexural Modulus	6300	MPa	ASTM D 790
Izod Impact notched, 1/8 in	50	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	563	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	210	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	216	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 66 psi	216	°C	ASTM D 648
DTUL @ 264 psi	211	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.55	%	Sim. to ISO 62
Water Absorption, 24hr	0.37	%	ASTM D 570
Density	1540	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120 - 150	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.05	%	-
Melt temperature	355 - 370	°C	-
Mold temperature	140 - 150	°C	-
Zone 1	345 - 355	°C	-
Zone 2	360 - 370	°C	-
Zone 3	370 - 380	°C	-
Screw speed	60 - 100	rpm	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific