

Product Texts

LNP THERMOCOMP 9X10401H compound is based on Polyphenylsulfone (PPSU) containing proprietary fillers. Added features of this grade include: Healthcare, X-Ray Opaque.

Processing/Physical Characteristics	Value	Unit	Test Standard
ASTM Data			
Mold Shrinkage, MD	0.9	mm/mm	ASTM D 955
Mold Shrinkage, TD	2	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	2550	MPa	ISO 527
Yield stress	71	MPa	ISO 527
Yield strain	7	%	ISO 527
Stress at break	57	MPa	ISO 527
Strain at break	12	%	ISO 527
Flexural modulus	2570	MPa	ISO 178
Izod impact strength, +23°C, 4mm	175	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	8	kJ/m ²	ISO 180/1A

ASTM Data	Value	Unit	Test Standard
Tensile Modulus	2660	MPa	ASTM D 638
Tensile Strength at Yield	72	MPa	ASTM D 638
Tensile Strength at Break	57	MPa	ASTM D 638
Elongation at Yield	7	%	ASTM D 638
Elongation at Break	12	%	ASTM D 638
Flexural Modulus	2720	MPa	ASTM D 790
Izod Impact notched, 1/8 in	86	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	1640	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	200	°C	ISO 75-1/-2
Temp. of deflection under load, 0.45 MPa	213	°C	ISO 75-1/-2
ASTM Data			
Coefficient of Thermal Expansion, MD	52.9	E-6/K	ASTM D 696
Coefficient of Thermal Expansion, TD	52.9	E-6/K	ASTM D 696
DTUL @ 66 psi	214	°C	ASTM D 648
DTUL @ 264 psi	203	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.47	%	Sim. to ISO 62
Water Absorption, 24hr	0.26	%	ASTM D 570
Density	1460	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	150	°C	-
Pre-drying - Time	2.5	h	-
Processing humidity	≤0.05	%	-
Melt temperature	340 - 390	°C	-
Mold temperature	140 - 160	°C	-
Zone 1	320	°C	-
Zone 2	350	°C	-
Zone 3	350	°C	-
Back pressure	0.3 - 0.7	MPa	-

Characteristics

Processing

Injection Molding

Regional Availability

North America, Europe, Asia Pacific