

Product Texts

LNP THERMOCOMP DF008ERH compound is based on Polycarbonate (PC) resin containing 40% glass fiber. Added features of this grade include: Easy Molding, Mold Release, Healthcare.

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Molding shrinkage, parallel	0.2	%	ISO 294-4, 2577
Molding shrinkage, normal	0.3	%	ISO 294-4, 2577
ASTM Data			
Mold Shrinkage, MD	0.2	mm/mm	ASTM D 955
Mold Shrinkage, TD	0.4	mm/mm	ASTM D 955

Mechanical properties	Value	Unit	Test Standard
ISO Data			
Tensile Modulus	11200	MPa	ISO 527
Stress at break	136	MPa	ISO 527
Strain at break	2.2	%	ISO 527
Flexural modulus	11000	MPa	ISO 178
Flexural strength	203	MPa	ISO 178
Izod impact strength, +23°C, 4mm	53	kJ/m ²	ISO 180/1U
Izod notched impact strength, +23°C, 4mm	11	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	11810	MPa	ASTM D 638
Tensile Strength at Break	136	MPa	ASTM D 638
Elongation at Break	2.3	%	ASTM D 638
Flexural Modulus	11260	MPa	ASTM D 790
Flexural Strength	204	MPa	ASTM D 790
Izod Impact notched, 1/8 in	218	J/m	ASTM D 256
Izod Impact unnotched, 1/8 in	806	J/m	ASTM D 256

Thermal properties	Value	Unit	Test Standard
ISO Data			
Temp. of deflection under load, 1.80 MPa	137	°C	ISO 75-1/-2
ASTM Data			
DTUL @ 264 psi	136	°C	ASTM D 648

Other properties	Value	Unit	Test Standard
Humidity absorption	0.12	%	Sim. to ISO 62
Water Absorption, 24hr	0.93	%	ASTM D 570

Processing Recommendation Injection Molding	Value	Unit	Test Standard
Pre-drying - Temperature	120	°C	-
Pre-drying - Time	4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	305 - 325	°C	-
Mold temperature	80 - 110	°C	-
Zone 1	295 - 305	°C	-
Zone 2	310 - 320	°C	-
Zone 3	320 - 330	°C	-
Screw speed	30 - 60	rpm	-
Back pressure	0.2 - 0.3	MPa	-

Characteristics**Processing**

Injection Molding

Regional Availability

North America, Europe, Asia Pacific