



LNP™ THERMOCOMP™ Compound PF008S

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PF-1008 HS

Product reorder name: PF008S

LNP THERMOCOMP™ PF008S is a compound based on Nylon 6 resin containing 40% Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1870	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	129200	kgf/cm ²	ASTM D 638
Flexural Stress	2840	kgf/cm ²	ASTM D 790
Flexural Modulus	94400	kgf/cm ²	ASTM D 790
Tensile Stress, break	186	MPa	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	12990	MPa	ISO 527
Flexural Stress	278	MPa	ISO 178
Flexural Modulus	9530	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	13	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	255	cm-kgf	ASTM D 3763
Multiaxial Impact	220	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	92	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	17	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	195	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	208	°C	ISO 75/Af
PHYSICAL			
Density	1.47	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.98	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.2 - 0.4	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ISO 294
Density	1.47	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	1.26	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.15 - 0.25	%
Melt Temperature	265 - 275	°C
Front - Zone 3 Temperature	275 - 290	°C
Middle - Zone 2 Temperature	265 - 275	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.3 - 0.7	MPa
Screw Speed	30 - 60	rpm