



LNP™ THERMOCOMP™ Compound PF00ASXS

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound PF-100-10 HS

Product reorder name: PF00ASXS

LNP THERMOCOMP™ PF00ASXS is a compound based on Nylon 6 resin containing 50% Glass Fiber. Added features of this material include: Heat Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	2170	kgf/cm ²	ASTM D 638
Tensile Strain, break	2.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	174300	kgf/cm ²	ASTM D 638
Flexural Stress	3350	kgf/cm ²	ASTM D 790
Flexural Modulus	125300	kgf/cm ²	ASTM D 790
Tensile Stress, break	241	MPa	ISO 527
Tensile Strain, break	3	%	ISO 527
Tensile Modulus, 1 mm/min	17250	MPa	ISO 527
Flexural Stress	318	MPa	ISO 178
Flexural Modulus	12380	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	17	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	186	cm-kgf	ASTM D 3763
Multiaxial Impact	229	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	94	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	18	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	198	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	210	°C	ISO 75/Af
PHYSICAL			
Density	1.57	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.83	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.7	%	ASTM D 955



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PHYSICAL			
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.6 - 0.8	%	ISO 294
Density	1.57	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.97	%	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