



LNP™ THERMOCOMP™ Compound QF00A

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound QF-100-10

Product reorder name: QF00A

LNP THERMOCOMP QF00A is a compound based on Nylon 6/10 containing 50% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, yld, Type I, 5 mm/min	1840	kgf/cm ²	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	1840	kgf/cm ²	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.5	%	ASTM D 638
Tensile Modulus, 50 mm/min	190400	kgf/cm ²	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	2850	kgf/cm ²	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2900	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	116600	kgf/cm ²	ASTM D 790
Tensile Stress, yield, 5 mm/min	181	MPa	ISO 527
Tensile Stress, break, 5 mm/min	181	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.3	%	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	15510	MPa	ISO 527
Flexural Modulus, 2 mm/min	12870	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	133	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	16	cm-kgf/cm	ASTM D 256
Izod Impact, unnotched 80*10*4 +23°C	75	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	14	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	221	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	213	°C	ASTM D 648
CTE, -40°C to 40°C, flow	1.5E+00	1/°C	ASTM E 831



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	7.83E+00	1/°C	ASTM E 831
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	220	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	205	°C	ISO 75/Af
PHYSICAL			
Density	1.6	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.21	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.18 - 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.5 - 1.5	%	ASTM D 955
Density	1.6	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.28	%	ISO 62



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.12 - 0.2	%
Melt Temperature	270 - 275	°C
Front - Zone 3 Temperature	270 - 280	°C
Middle - Zone 2 Temperature	260 - 270	°C
Rear - Zone 1 Temperature	250 - 260	°C
Mold Temperature	80 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm