



LNP™ THERMOCOMP™ Compound AF004XXY

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound AF004XXY

Product reorder name: AF004XXY

LNP THERMOCOMP AF004XXY is a compound based on ABS containing 20% glass fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	770	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2	%	ASTM D 638
Tensile Modulus, 50 mm/min	62000	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1240	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	62000	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	77	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.8	%	ISO 527
Tensile Modulus, 1 mm/min	6040	MPa	ISO 527
Flexural Stress	119	MPa	ISO 178
Flexural Modulus, 2 mm/min	5970	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	38	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	8	cm-kgf/cm	ASTM D 256
Multiaxial Impact	20	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	132	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	23	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	100	°C	ASTM D 648
CTE, -30°C to 30°C, flow	5.6E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	5.2E-05	1/°C	ASTM D 696
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	100	°C	ISO 75/Af
PHYSICAL			
Specific Gravity	1.19	-	ASTM D 792



LNP™ THERMOCOMP™ Compound AF004XXY

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Moisture Absorption, 50% RH, 24 hrs	0.25	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.2	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ISO 294
Density	1.19	g/cm ³	ISO 1183



LNP™ THERMOCOMP™ Compound AF004XXY

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	80	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05 - 0.1	%
Melt Temperature	260	°C
Front - Zone 3 Temperature	265 - 275	°C
Middle - Zone 2 Temperature	230 - 245	°C
Rear - Zone 1 Temperature	205 - 215	°C
Mold Temperature	70 - 80	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm