



LNP™ THERMOCOMP™ Compound IF006

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound IF-1006

Product reorder name: IF006

LNP THERMOCOMP™ IF006 is a compound based on Nylon 6/12 resin containing 30% Glass Fiber.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1850	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.7	%	ASTM D 638
Tensile Modulus, 50 mm/min	97700	kgf/cm ²	ASTM D 638
Flexural Stress	2960	kgf/cm ²	ASTM D 790
Flexural Modulus	94900	kgf/cm ²	ASTM D 790
Tensile Stress, break	178	MPa	ISO 527
Tensile Strain, break	3.4	%	ISO 527
Tensile Modulus, 1 mm/min	10320	MPa	ISO 527
Flexural Stress	250	MPa	ISO 178
Flexural Modulus	8830	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	126	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	14	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	143	cm-kgf	ASTM D 3763
Multiaxial Impact	30	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	78	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	213	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	198	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.05E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.3E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	4.05E-05	1/°C	ISO 11359-2



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
CTE, -40°C to 40°C, xflow	7.31E-05	1/°C	ISO 11359-2
PHYSICAL			
Density	1.322	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.17	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.2	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.7 - 0.8	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.11 - 0.16	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.66 - 0.71	%	ISO 294
Density	1.31	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Compliant, 94HB Flame Class Rating (3)(4)	1.5	mm	UL 94 by SABIC-IP



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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	255 - 265	°C
Mold Temperature	65 - 95	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm