LNP™ THERMOCOMP™ Compound OF006A

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound OF-1006
Product reorder name: OF006A

LNP THERMOCOMP OF006A is a compound based on PPS - Branched resin containing 30% Glass Fiber.

TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	1320	kgf/cm²	ASTM D 638
Tensile Strain, break	1.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	129800	kgf/cm²	ASTM D 638
Flexural Stress	1960	kgf/cm²	ASTM D 790
Flexural Modulus	114700	kgf/cm²	ASTM D 790
Tensile Stress, break	129	MPa	ISO 527
Tensile Strain, break	1.2	%	ISO 527
Tensile Modulus, 1 mm/min	12480	MPa	ISO 527
Flexural Stress	220	MPa	ISO 178
Flexural Modulus	11880	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	41	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	88	cm-kgf	ASTM D 3763
Multiaxial Impact	27	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	31	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	9	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	267	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	4.5E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.41E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	4.57E-05	1/°C	ISO 11359-2

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TYPICAL PROPERTIES[1]	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	266	°C	ISO 75/Af
PHYSICAL			
Density	1.58	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1 - 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.7	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.13 - 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.4 - 0.7	%	ISO 294
Density	1.58	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.45	mm	UL 94 by SABIC-IP

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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120 - 150	°C
Drying Time	4	hrs
Melt Temperature	315 - 320	°C
Front - Zone 3 Temperature	330 - 345	°C
Middle - Zone 2 Temperature	320 - 330	°C
Rear - Zone 1 Temperature	305 - 315	°C
Mold Temperature	140 - 165	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm