



LNP™ THERMOCOMP™ Compound WF0039U

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound WF-1003 FR-S UV

Product reorder name: WF0039U

LNP THERMOCOMP WF0039U is a compound based on PBT resin containing 15% Glass Fiber. Added features of this grade include: Flame Retardant and UV Stabilized.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	960	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	2.3	%	ASTM D 638
Tensile Modulus, 50 mm/min	73800	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	1390	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	61700	kgf/cm ²	ASTM D 790
Tensile Stress, break, 5 mm/min	95	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.3	%	ISO 527
Tensile Modulus, 1 mm/min	7080	MPa	ISO 527
Flexural Stress	145	MPa	ISO 178
Flexural Modulus, 2 mm/min	6360	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	34	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Multiaxial Impact	14	cm-kgf	ISO 6603
Instrumented Impact Total Energy, 23°C	47	cm-kgf	ASTM D 3763
Izod Impact, unnotched 80*10*4 +23°C	19	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	215	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	194	°C	ASTM D 648
CTE, -30°C to 30°C, flow	4.23E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	1.07E+02	1/°C	ASTM D 696
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	212	°C	ISO 75/Bf



LNP™ THERMOCOMP™ Compound WF0039U

Americas: COMMERCIAL

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
THERMAL			
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	185	°C	ISO 75/Af
PHYSICAL			
Density	1.58	g/cm ³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.05	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs (5)	0.5 - 0.7	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	1 - 3	%	ASTM D 955
Density	1.57	g/cm ³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.06	%	ISO 62



LNP™ THERMOCOMP™ Compound WF0039U

Americas: COMMERCIAL

PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.05	%
Melt Temperature	245 - 260	°C
Front - Zone 3 Temperature	250 - 260	°C
Middle - Zone 2 Temperature	245 - 255	°C
Rear - Zone 1 Temperature	230 - 245	°C
Mold Temperature	80 - 100	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm