

# LNPT<sup>TM</sup> THERMOCOMP<sup>TM</sup> COMPOUND OF006A

OF-1006

REGION EUROPE

## DESCRIPTION

LNP THERMOCOMP OF006A compound is based on branched Polyphenylene Sulfide (PPS) resin containing 30% glass fiber.

GENERAL INFORMATION	
Features	High stiffness/Strength, No PFAS intentionally added
Fillers	Glass Fiber
Polymer Types	Polyphenylene Sulfide, Branched (PPS, Branched)
Processing Techniques	Injection Molding

  

INDUSTRY	SUB INDUSTRY
Building and Construction	Building Component
Consumer	Sport/Leisure, Personal Accessory, Home Appliances, Commercial Appliance
Electrical and Electronics	Mobile Phone - Computer - Tablets
Industrial	Electrical

## TYPICAL PROPERTY VALUES

Revision 20241101

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL <sup>(1)</sup></b>			
Tensile Stress, break, 5 mm/min	157	MPa	ISO 527
Tensile Strain, break, 5 mm/min	1.9	%	ISO 527
Tensile Modulus, 1 mm/min	11100	MPa	ISO 527
Flexural Stress, break, 2 mm/min	238	MPa	ISO 178
Flexural Modulus, 2 mm/min	10800	MPa	ISO 178
<b>THERMAL <sup>(1)</sup></b>			
CTE, 23°C to 60°C, flow	1.9E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.2E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	263	°C	ISO 75/Af
Relative Temp Index, Elec <sup>(2)</sup>	220	°C	UL 746B
Relative Temp Index, Mech w/impact <sup>(2)</sup>	200	°C	UL 746B
Relative Temp Index, Mech w/o impact <sup>(2)</sup>	220	°C	UL 746B
<b>PHYSICAL <sup>(1)</sup></b>			
Density	1.58	g/cm <sup>3</sup>	ISO 1183
<b>ELECTRICAL <sup>(1) (2)</sup></b>			
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥6	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥3	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 2	≥1.5	mm	UL 746A

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
High Amp Arc Ignition (HAI), PLC 4	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	1	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	5	PLC Code	ASTM D495
<b>FLAME CHARACTERISTICS <sup>(2)</sup></b>			
UL Yellow Card Link	<a href="#">E45329-101344680</a>	-	-
UL Yellow Card Link 2	<a href="#">E45329-101344627</a>	-	-
UL Recognized, 94-5VA Flame Class Rating	≥1.5	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥0.45	mm	UL 94
UV-light, water exposure /immersion	F1	-	UL 746C
<b>INJECTION MOLDING <sup>(3)</sup></b>			
Drying Temperature	120 – 150	°C	
Drying Time	4	Hrs	
Melt Temperature	315 – 340	°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	

(1) The information stated on Technical Datasheets should be used as indicative only for material selection purposes and not be utilized as specification or used for part or tool design.

(2) UL Ratings shown on the technical datasheet might not cover the full range of thicknesses and colors. For details, please see the UL Yellow Card.

(3) Injection Molding parameters are only mentioned as general guidelines. These may not apply or may need adjustment in specific situations such as low shot sizes, large part molding, thin wall molding and gas-assist molding.

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