

# LNP<sup>TM</sup> THERMOCOMP<sup>TM</sup> COMPOUND UX06032

UX06032

## DESCRIPTION

LNP THERMOCOMP UX06032 is a compound based on Polyphthalamide resin containing Glass Fiber, Flame Retardant. Added features of this material include: Flame Retardant, Non-Brominated & Non-Chlorinated Flame Retardant, Heat Stabilized.

## TYPICAL PROPERTY VALUES

Revision 20200914

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break, 5 mm/min	130	MPa	ISO 527
Tensile Strain, break, 5 mm/min	2.1	%	ISO 527
Tensile Modulus, 1 mm/min	11400	MPa	ISO 527
Flexural Stress, break, 2 mm/min	200	MPa	ISO 178
Flexural Modulus, 2 mm/min	9900	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched 80*10*4 +23°C	40	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
CTE, 23°C to 60°C, flow	2.1E-05	1/°C	ISO 11359-2
CTE, 23°C to 60°C, xflow	5.4E-05	1/°C	ISO 11359-2
HDT/Bf, 0.45 MPa Flatw 80*10*4 sp=64mm	275	°C	ISO 75/Bf
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	258	°C	ISO 75/Af
Relative Temp Index, Elec <sup>(1)</sup>	140	°C	UL 746B
Relative Temp Index, Mech w/impact <sup>(1)</sup>	140	°C	UL 746B
Relative Temp Index, Mech w/o impact <sup>(1)</sup>	140	°C	UL 746B
<b>PHYSICAL</b>			
Mold Shrinkage on Tensile Bar, flow	0.2 – 0.3	%	SABIC method
Density	1.46	g/cm <sup>3</sup>	ISO 1183
Water Absorption, (23°C/24hrs)	0.23	%	ISO 62-1
<b>ELECTRICAL</b>			
Comparative Tracking Index <sup>(2)</sup>	600	V	IEC 60112
Comparative Tracking Index (UL) {PLC}	0	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 0	≥0.41	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 0	≥0.41	mm	UL 746A
<b>FLAME CHARACTERISTICS <sup>(1)</sup></b>			
UL Yellow Card Link	<a href="#">E45329-101284058</a>	-	-
UL Yellow Card Link 2	<a href="#">E207780-103093686</a>	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.41	mm	UL 94
Glow Wire Ignitability Temperature, 0.8 mm	825	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 1.6 mm	825	°C	IEC 60695-2-13
Glow Wire Ignitability Temperature, 3.0 mm	850	°C	IEC 60695-2-13
Glow Wire Flammability Index, 3.0 mm	960	°C	IEC 60695-2-12

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Glow Wire Flammability Index, 0.8 mm	960	°C	IEC 60695-2-12
Glow Wire Flammability Index, 1.6 mm	960	°C	IEC 60695-2-12
<b>INJECTION MOLDING</b>			
Drying Temperature	120 – 140	°C	
Drying Time	4 – 6	hrs	
Melt Temperature	305 – 315	°C	
Front - Zone 3 Temperature	295 – 315	°C	
Middle - Zone 2 Temperature	290 – 310	°C	
Rear - Zone 1 Temperature	280 – 300	°C	
Mold Temperature	130 – 150	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	40 – 80	rpm	

(1) 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.

(2) Value shown here is based on internal measurement.

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