

# LNP<sup>TM</sup> THERMOCOMP<sup>TM</sup> COMPOUND ZFM62P

ZFM-3362 EP

## DESCRIPTION

LNP THERMOCOMP ZFM62P is a compound based on PPO resin containing 10% Glass Fiber, 30% Mical. Added feature of this material is: Exceptional Processing.

## TYPICAL PROPERTY VALUES

Revision 20191219

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
<b>MECHANICAL</b>			
Tensile Stress, break	75	MPa	ASTM D 638
Tensile Strain, break	1.4	%	ASTM D 638
Tensile Modulus, 50 mm/min	8970	MPa	ASTM D 638
Flexural Stress	124	MPa	ASTM D 790
Flexural Modulus	8740	MPa	ASTM D 790
Tensile Stress, break	66	MPa	ISO 527
Tensile Strain, break	1	%	ISO 527
Tensile Modulus, 1 mm/min	8540	MPa	ISO 527
Flexural Stress	120	MPa	ISO 178
Flexural Modulus	8690	MPa	ISO 178
<b>IMPACT</b>			
Izod Impact, unnotched, 23°C	192	J/m	ASTM D 4812
Izod Impact, notched, 23°C	31	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	7	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	12	kJ/m <sup>2</sup>	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	3	kJ/m <sup>2</sup>	ISO 180/1A
<b>THERMAL</b>			
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
CTE, -40°C to 40°C, flow	3.74E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	3.52E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	3.74E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	3.53E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	139	°C	ISO 75/Af
<b>PHYSICAL</b>			
Density	1.42	g/cm <sup>3</sup>	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.08	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.5	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.45	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.5	%	ISO 294
Density	1.42	g/cm <sup>3</sup>	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62
<b>FLAME CHARACTERISTICS <sup>(1)</sup></b>			

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Yellow Card Link	<a href="#">E121562-101283803</a>	-	-
UL Recognized, 94HB Flame Class Rating	1.5	mm	UL 94
<b>INJECTION MOLDING</b>			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Melt Temperature	300 – 305	°C	
Front - Zone 3 Temperature	300 – 310	°C	
Middle - Zone 2 Temperature	290 – 300	°C	
Rear - Zone 1 Temperature	275 – 290	°C	
Mold Temperature	80 – 110	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 60	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.

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