LNP™ THERMOCOMP™ COMPOUND DF0046P

DF-1004 EP FR ECO
REGION ASIA

DESCRIPTION

LNP THERMOCOMP DF0046P is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features include: Exceptional Processing, Non-Brominated & Non-Chlorinated Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	95	MPa	ASTM D 638
Tensile Strain, break	3.6	%	ASTM D 638
Tensile Modulus, 50 mm/min	6160	MPa	ASTM D 638
Flexural Stress	137	MPa	ASTM D 790
Flexural Modulus	5970	MPa	ASTM D 790
Tensile Stress, break	97	MPa	ISO 527
Tensile Strain, break	3.3	%	ISO 527
Tensile Modulus, 1 mm/min	6920	MPa	ISO 527
Flexural Stress	151	MPa	ISO 178
Flexural Modulus	6560	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	467	J/m	ASTM D 4812
Izod Impact, notched, 23°C	74	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	10	J	ASTM D 3763
Izod Impact, notched 80*10*4 +23°C	8	kJ/m²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	137	°C	ASTM D 648
CTE, -40°C to 40°C, flow	4.68E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	1.13E-04	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.13E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	6.97E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	138	°C	ISO 75/Af
Relative Temp Index, Elec (1)	80	°C	UL 746B
Relative Temp Index, Mech w/impact (1)	80	°C	UL 746B
Relative Temp Index, Mech w/o impact (1)	80	°C	UL 746B
PHYSICAL			
Density	1.37	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.4	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.2 – 0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.5	%	ASTM D 955
Density	1.37	g/cm³	ISO 1183
Moisture Absorption (23°C / 50% RH)	0.1	%	ISO 62

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-101284060	-	-
UL Recognized, 94V-0 Flame Class Rating	1.5	mm	UL 94

(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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