LNP™ THERMOCOMP™ COMPOUND DF0049P

DF-1004 EP FR
REGION ASIA

DESCRIPTION

LNP THERMOCOMP DF0049P is a compound based on Polycarbonate resin containing 20% Glass Fiber. Added features of this material include: Exceptional Processing, Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20190717

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	108	MPa	ASTM D 638
Tensile Strain, break	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	6850	MPa	ASTM D 638
Flexural Stress	165	MPa	ASTM D 790
Flexural Modulus	6080	MPa	ASTM D 790
Tensile Stress, break	108	MPa	ISO 527
Tensile Strain, break	2.7	%	ISO 527
Tensile Modulus, 1 mm/min	6950	MPa	ISO 527
Flexural Stress	165	MPa	ISO 178
Flexural Modulus	6210	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	279	J/m	ASTM D 4812
Izod Impact, notched, 23°C	42	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	11	J	ASTM D 3763
Multiaxial Impact	9	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	47	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	7	kJ/m²	ISO 180/1A
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	135	°C	ASTM D 648
CTE, -40°C to 40°C, flow	2.34E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	7.56E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, flow	2.38E-05	1/°C	ISO 11359-2
CTE, -40°C to 40°C, xflow	7.58E-05	1/°C	ISO 11359-2
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	135	°C	ISO 75/Af
PHYSICAL			
Density	1.39	g/cm³	ASTM D 792
Moisture Absorption, 50% RH, 24 hrs	0.1	%	ASTM D 570
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4 – 0.6	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.1 – 0.3	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.4 – 0.6	%	ISO 294
Density	1.39	g/cm³	ISO 1183

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