LNP™ THERMOCOMP™ COMPOUND DF0029P

DF-1002 EP FR

DESCRIPTION

LNP THERMOCOMP* DF0029P is a compound based on Polycarbonate resin containing 10% Glass Fiber. Added features of this material include: Exceptional Processing. Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, break	92	MPa	ASTM D 638
Tensile Strain, break	3.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	4610	MPa	ASTM D 638
Flexural Stress	155	MPa	ASTM D 790
Flexural Modulus	4680	MPa	ASTM D 790
Tensile Stress, break	93	MPa	ISO 527
Tensile Strain, break	3.8	%	ISO 527
Tensile Modulus, 1 mm/min	4800	MPa	ISO 527
Flexural Stress	158	MPa	ISO 178
Flexural Modulus	5000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	405	J/m	ASTM D 4812
Izod Impact, notched, 23°C	42	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	5	J	ASTM D 3763
Multiaxial Impact	1	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	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	136	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	134	°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	1.318	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs	0.42	%	ISO 294
Mold Shrinkage, xflow, 24 hrs	0.48	%	ISO 294
Density	1.31	g/cm³	ISO 1183
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101283881	-	-

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
UL Yellow Card Link 2	E121562-101283882	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.64	mm	UL 94
UV-light, water exposure/immersion	F1	-	UL 746C
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	305 – 325	°C	
Front - Zone 3 Temperature	320 – 330	°C	
Middle - Zone 2 Temperature	310 – 320	°C	
Rear - Zone 1 Temperature	295 – 305	°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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