LNP™ THERMOCOMP™ COMPOUND DX05475

DFA-113

DESCRIPTION

LNP THERMOCOMP DX05474 is a compound based on Polycarbonate resin containing Glass Fiber. Added features of this material include: Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, yield	59	MPa	ASTM D 638
Tensile Stress, break	54	MPa	ASTM D 638
Tensile Strain, yield	4.9	%	ASTM D 638
Tensile Strain, break	8.2	%	ASTM D 638
Tensile Modulus, 50 mm/min	3590	MPa	ASTM D 638
Flexural Stress	103	MPa	ASTM D 790
Flexural Modulus	3610	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	1068	J/m	ASTM D 4812
Izod Impact, notched, 23°C	58	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	132	°C	ASTM D 648
Relative Temp Index, Elec [1]	125	°C	UL 746B
Relative Temp Index, Mech w/impact [1]	115	°C	UL 746B
Relative Temp Index, Mech w/o impact [1]	125	°C	UL 746B
PHYSICAL			
Density	1.29	g/cm³	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.3 – 0.5	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.3 – 0.4	%	ASTM D 955
ELECTRICAL			
Comparative Tracking Index (UL) {PLC}	4	PLC Code	UL 746A
Hot-Wire Ignition (HWI), PLC 1	≥3	mm	UL 746A
Hot-Wire Ignition (HWI), PLC 2	≥1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 3	≥1.5	mm	UL 746A
High Voltage Arc Track Rate {PLC}	3	PLC Code	UL 746A
Arc Resistance, Tungsten {PLC}	6	PLC Code	ASTM D 495
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101280282	-	-
UL Yellow Card Link 2	E121562-101283885	-	-
UL Recognized, 94-5VA Flame Class Rating	≥2.5	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94
UV-light, water exposure/immersion	F2	-	UL 746C
INJECTION MOLDING			

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
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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