LNP™ THERMOCOMP™ COMPOUND LGK3020

DESCRIPTION

Glass reinforced. Flame retardant.

TYPICAL PROPERTY VALUES

Revision 20191216

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 50 mm/min	117	MPa	ASTM D 638
Tensile Strain, brk, Type I, 50 mm/min	4	%	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	147	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	6570	MPa	ASTM D 790
IMPACT			
Izod Impact, notched, 23°C	122	J/m	ASTM D 256
THERMAL			
HDT, 1.82 MPa, 6.4 mm, unannealed	146	°C	ASTM D 648
CTE, -30°C to 30°C, flow	2.7E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	4.68E-05	1/°C	ASTM D 696
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			
Specific Gravity	1.43	-	ASTM D 792
Water Absorption, 24 hours	0.13	%	ASTM D 570
Mold Shrinkage, flow, 3.2 mm	0.05 – 0.25	%	SABIC method
Mold Shrinkage, xflow, 3.2 mm	0.15 – 0.35	%	SABIC method
ELECTRICAL			
Dielectric Strength, in oil, 3.2 mm	17.7	kV/mm	ASTM D 149
Hot-Wire Ignition (HWI), PLC 0	1.5	mm	UL 746A
High Amp Arc Ignition (HAI), PLC 4	1.5	mm	UL 746A
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E207780-228440	-	-
UL Yellow Card Link 2	E45587-236909	-	-
UL Recognized, 94V-0 Flame Class Rating	≥1.5	mm	UL 94
INJECTION MOLDING			
Drying Temperature	120	°C	
Drying Time	3 – 4	hrs	
Drying Time (Cumulative)	48	hrs	
Maximum Moisture Content	0.02	%	
Melt Temperature	315 – 340	°C	
Nozzle Temperature	310 – 330	°C	
Front - Zone 3 Temperature	315 – 340	°C	
Middle - Zone 2 Temperature	305 – 325	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	295 – 315	°C	
Mold Temperature	80 – 115	°C	
Back Pressure	0.3 – 0.7	MPa	
Screw Speed	40 – 70	rpm	
Shot to Cylinder Size	40 – 60	%	
Vent Depth	0.025 – 0.076	mm	

(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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