LNP™ THERMOCOMP™ COMPOUND DC0041PQ

DC0041PQ

DESCRIPTION

LNP THERMOCOMP DC0041PQ is a compound based on Polycarbonate resin containing Carbon Fiber. Added feature of this grade is: Flame Retardant.

TYPICAL PROPERTY VALUES

Revision 20200109

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	185	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	21000	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	260	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	18000	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	500	J/m	ASTM D 4812
Izod Impact, notched, 23°C	70	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	10	J	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
CTE, -30°C to 30°C, flow	1.4E-05	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow	3.5E-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	1.32	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.36	%	ASTM D 955
ELECTRICAL			
Volume Resistivity	3.19E+06	Ohm-cm	ASTM D 257
Surface Resistivity	1.40E+06	Ohm	ASTM D 257
FLAME CHARACTERISTICS [1]			
UL Yellow Card Link	E121562-101712652	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94
UL Recognized, 94V-1 Flame Class Rating	≥0.7	mm	UL 94
INJECTION MOLDING			
Drying Temperature	70	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	275 – 300	°C	
Front - Zone 3 Temperature	280 – 300	°C	
Middle - Zone 2 Temperature	270 – 290	°C	

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PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
Rear - Zone 1 Temperature	260 – 280	°C	
Mold Temperature	60 – 85	°C	
Back Pressure	0.2 – 0.3	MPa	
Screw Speed	30 – 63	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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