



LNP™ THERMOCOMP™ Compound DC0041PQ

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound DC0041PQ

Product reorder name: DC0041PQ

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

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	1880	kgf/cm ²	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.5	%	ASTM D 638
Tensile Modulus, 5 mm/min	214100	kgf/cm ²	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	2650	kgf/cm ²	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	183500	kgf/cm ²	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	50	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	7	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	101	cm-kgf	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
PHYSICAL			
Specific Gravity	1.32	-	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.1	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs (5)	0.36	%	ASTM D 955
FLAME CHARACTERISTICS			
UL Recognized, 94V-0 Flame Class Rating (3)	0.8	mm	UL 94



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
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
Rear - Zone 1 Temperature	260 - 280	°C
Mold Temperature	60 - 85	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 63	rpm