LNP™ THERMOCOMP™ COMPOUND DC0041PR

DESCRIPTION

LNP THERMOCOMP DC0041PR is a compound based on Polycarbonate resin containing Carbon Fiber. Added feature of this grade is: Flame Retardant, PCR content up to 30%.

TYPICAL PROPERTY VALUES

Revision 20191217

PROPERTIES	TYPICAL VALUES	UNITS	TEST METHODS
MECHANICAL			
Tensile Stress, brk, Type I, 5 mm/min	160	MPa	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	1.1	%	ASTM D 638
Tensile Modulus, 5 mm/min	19000	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	200	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	17500	MPa	ASTM D 790
IMPACT			
Izod Impact, unnotched, 23°C	400	J/m	ASTM D 4812
Izod Impact, notched, 23°C	55	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	9	J	ASTM D 3763
THERMAL			
HDT, 1.82 MPa, 3.2mm, unannealed	86	°C	ASTM D 648
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	0.08	%	ASTM D 955
Mold Shrinkage, xflow, 24 hrs	0.33	%	ASTM D 955
FLAME CHARACTERISTICS (1)			
UL Yellow Card Link	E207780-102741949	-	-
UL Recognized, 94V-0 Flame Class Rating	≥0.8	mm	UL 94
INJECTION MOLDING			
Drying Temperature	70	°C	
Drying Time	4	hrs	
Maximum Moisture Content	0.05	%	
Melt Temperature	275 – 310	°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 – 80	°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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