

LNP™ THERMOCOMP™ DC0041PQ

compound

Polycarbonate

SABIC Innovative Plastics

Message:

LNP THERMOCOMP DC0041PQ is a compound based on Polycarbonate resin containing Carbon Fiber. Added feature of this grade is: Flame Retardant.
Also known as: LNP* THERMOCOMP* Compound DC0041PQ
Product reorder name: DC0041PQ

General Information			
UL YellowCard	E121562-101712652		
Filler / Reinforcement	Carbon Fiber		
Features	Flame Retardant		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.32	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow : 24 hr	0.10	%	
Across Flow : 24 hr	0.36	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus ¹	21000	MPa	ASTM D638
Tensile Strength ² (Break)	185	MPa	ASTM D638
Tensile Elongation ³ (Break)	1.5	%	ASTM D638
Flexural Modulus ⁴ (50.0 mm Span)	18000	MPa	ASTM D790
Flexural Strength ⁵ (Break, 50.0 mm Span)	260	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C)	70	J/m	ASTM D256
Unnotched Izod Impact (23°C)	500	J/m	ASTM D4812
Instrumented Dart Impact (23°C, Total Energy)	10.0	J	ASTM D3763
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed, 3.20 mm)	86.0	°C	ASTM D648
CLTE			ASTM D696
Flow : -30 to 30°C	1.4E-5	cm/cm/°C	
Transverse : -30 to 30°C	3.5E-5	cm/cm/°C	
Flammability	Nominal Value	Test Method	
Flame Rating (0.800 mm)	V-0	UL 94	
Injection	Nominal Value	Unit	
Drying Temperature	70.0	°C	

Drying Time	4.0	hr
Suggested Max Moisture	0.050	%
Rear Temperature	260 to 280	°C
Middle Temperature	270 to 290	°C
Front Temperature	280 to 300	°C
Processing (Melt) Temp	275 to 300	°C
Mold Temperature	60.0 to 85.0	°C
Back Pressure	0.200 to 0.300	MPa
Screw Speed	30 to 63	rpm

NOTE

1. 5.0 mm/min
2. Type I, 5.0 mm/min
3. Type I, 5.0 mm/min
4. 1.3 mm/min
5. 1.3 mm/min

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