



LNP™ THERMOCOMP™ Compound DF0029P

Americas: COMMERCIAL

Also known as: LNP™ THERMOCOMP™ Compound DF-1002 EP FR

Product reorder name: DF0029P

LNP THERMOCOMP™ DF0029P is a compound based on Polycarbonate resin containing 10% Glass Fiber. Added features of this material include: Exceptional Processing. Flame Retardant.

TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
MECHANICAL			
Tensile Stress, break	940	kgf/cm ²	ASTM D 638
Tensile Strain, break	3.8	%	ASTM D 638
Tensile Modulus, 50 mm/min	47100	kgf/cm ²	ASTM D 638
Flexural Stress	1580	kgf/cm ²	ASTM D 790
Flexural Modulus	47800	kgf/cm ²	ASTM D 790
Tensile Stress, break	93	MPa	ISO 527
Tensile Strain, break	3.8	%	ISO 527
Tensile Modulus, 1 mm/min	4800	MPa	ISO 527
Flexural Stress	158	MPa	ISO 178
Flexural Modulus	5000	MPa	ISO 178
IMPACT			
Izod Impact, unnotched, 23°C	41	cm-kgf/cm	ASTM D 4812
Izod Impact, notched, 23°C	4	cm-kgf/cm	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	54	cm-kgf	ASTM D 3763
Multiaxial Impact	14	cm-kgf	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	33	kJ/m ²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	5	kJ/m ²	ISO 180/1A
THERMAL			
HDT, 0.45 MPa, 3.2 mm, unannealed	140	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	136	°C	ASTM D 648
HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	134	°C	ISO 75/Af
PHYSICAL			
Density	1.318	g/cm ³	ASTM D 792
Mold Shrinkage, flow, 24 hrs (5)	0.4	%	ASTM D 955



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TYPICAL PROPERTIES ¹	TYPICAL VALUE	Unit	Standard
PHYSICAL			
Mold Shrinkage, xflow, 24 hrs (5)	0.4	%	ASTM D 955
Mold Shrinkage, flow, 24 hrs (5)	0.42	%	ISO 294
Mold Shrinkage, xflow, 24 hrs (5)	0.48	%	ISO 294
Density	1.31	g/cm ³	ISO 1183
FLAME CHARACTERISTICS			
UL Compliant, 94V-0 Flame Class Rating (3)(4)	0.64	mm	UL 94 by SABIC-IP



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PROCESSING PARAMETERS	TYPICAL VALUE	Unit
Injection Molding		
Drying Temperature	120	°C
Drying Time	4	hrs
Maximum Moisture Content	0.02	%
Melt Temperature	305 - 325	°C
Front - Zone 3 Temperature	320 - 330	°C
Middle - Zone 2 Temperature	310 - 320	°C
Rear - Zone 1 Temperature	295 - 305	°C
Mold Temperature	80 - 110	°C
Back Pressure	0.2 - 0.3	MPa
Screw Speed	30 - 60	rpm