

LNP* Thermocomp* Compound DF006RXQ

Americas: COMMERCIAL

30% Glass Fiber Reinforced Polycarbonate

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	119	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	117	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	2.7	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	3	%	ASTM D 638
Tensile Modulus, 50 mm/min	7710	MPa	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	187	MPa	ASTM D 790
Flexural Stress, brk, 1.3 mm/min, 50 mm span	185	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	7660	MPa	ASTM D 790
Tensile Stress, yield, 5 mm/min	116	MPa	ISO 527
Tensile Stress, break, 5 mm/min	115	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	2.7	%	ISO 527
Tensile Strain, break, 5 mm/min	2.9	%	ISO 527
Tensile Modulus, 1 mm/min	6880	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	179	MPa	ISO 178
Flexural Stress, break, 2 mm/min	179	MPa	ISO 178
Flexural Strain, break, 2 mm/min	3.4	%	ISO 178
Flexural Modulus, 2 mm/min	7370	MPa	ISO 178
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	930	J/m	ASTM D 4812
Izod Impact, notched, 23°C	148	J/m	ASTM D 256
Instrumented Impact Energy @ peak, 23°C	22	J	ASTM D 3763
Multiaxial Impact	6	J	ISO 6603
Izod Impact, unnotched 80*10*4 +23°C	50	kJ/m²	ISO 180/1U
Izod Impact, notched 80*10*4 +23°C	13	kJ/m²	ISO 180/1A
THERMAL	Value	Unit	Standard
HDT, 1.82 MPa, 3.2mm, unannealed	140	°C	ASTM D 648
	2.76E+01	1/°C	ASTM D 696
UTE, -30°C to 30°C, flow	2.700+01	17 0	
	5.13E+01	1/°C	ASTM D 696
CTE, -30°C to 30°C, xflow			ASTM D 696 ISO 75/Af
CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm	5.13E+01	1/°C	
CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm PHYSICAL	5.13E+01 140	1/°C °C	ISO 75/Af
CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm PHYSICAL Density	5.13E+01 140 Value	1/°C °C Unit	ISO 75/Af Standard
CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm PHYSICAL Density Moisture Absorption, 50% RH, 24 hrs	5.13E+01 140 Value 1.424	1/°C °C Unit g/cm ³	ISO 75/Af Standard ASTM D 792
CTE, -30°C to 30°C, flow CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm PHYSICAL Density Moisture Absorption, 50% RH, 24 hrs Mold Shrinkage, flow, 24 hrs Mold Shrinkage, xflow, 24 hrs	5.13E+01 140 Value 1.424 0.11	1/°C °C Unit g/cm ³ %	ISO 75/Af Standard ASTM D 792 ASTM D 570
CTE, -30°C to 30°C, xflow HDT/Af, 1.8 MPa Flatw 80*10*4 sp=64mm PHYSICAL Density Moisture Absorption, 50% RH, 24 hrs Mold Shrinkage, flow, 24 hrs	5.13E+01 140 Value 1.424 0.11 0.3 - 0.5	1/°C °C Unit g/cm ³ % %	ISO 75/Af Standard ASTM D 792 ASTM D 570 ASTM D 955

Processing

Source GMD, last updated:2009/01/27

Parameter		
Injection Molding	Val	lue Unit
Drying Temperature	12	20 °C
Drying Time	4	hrs
Maximum Moisture Content	0.0	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
		• OND last up data de0000/01

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THESE PROPERTY VALUES ARE NOT INTENDED FOR SPECIFICATION PURPOSES.

PLEASE CHECK WITH YOUR (LOCAL SALES OFFICE) FOR AVAILABILITY IN YOUR REGION

(1) Typical values only. Variations within normal tolerances are possible for various colors. All values are measured after at least 48 hours storage at 23°C/50% relative humidity. All properties, except the melt volume and melt flow rates, are measured on injection molded samples. All samples tested under ISO test standards are prepared according to ISO 294.

(2) Only typical data for selection purposes. Not to be used for part or tool design.

(3) This rating is not intended to reflect hazards presented by this or any other material under actual fire conditions.

(4) Internal measurements according to UL standards.

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