

LNP* Thermocomp* Compound Cycoloy_C7210A Americas: COMMERCIAL

LNP* Thermocomp* Cycoloy_C7210A is a talc-filled PC+ABS, nonhalogenated FR for thinwall molding applications. Very good modulusductility balance.

Property

TYPICAL PROPERTIES ⁽¹⁾			
MECHANICAL	Value	Unit	Standard
Tensile Stress, yld, Type I, 5 mm/min	63	MPa	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	48	MPa	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	3.6	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	80	%	ASTM D 638
Tensile Modulus, 5 mm/min	3510	MPa	ASTM D 638
Flexural Stress, brk, 1.3 mm/min, 50 mm span	106	MPa	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	3140	MPa	ASTM D 790
ІМРАСТ	Value	Unit	Standard
Izod Impact, unnotched, 23°C	1869	J/m	ASTM D 4812
Izod Impact, notched, 23°C	176	J/m	ASTM D 256
Instrumented Impact Total Energy, 23°C	47	J	ASTM D 3763
THERMAL	Value	Unit	Standard
Vicat Softening Temp, Rate B/50	101	°C	ASTM D 1525
HDT, 0.45 MPa, 3.2 mm, unannealed	92	°C	ASTM D 648
HDT, 1.82 MPa, 3.2mm, unannealed	82	°C	ASTM D 648
CTE, -40°C to 40°C, flow	5.94E-05	1/°C	ASTM E 831
CTE, -40°C to 40°C, xflow	6.66E-05	1/°C	ASTM E 831
Relative Temp Index, Elec	60	°C	UL 746B
Relative Temp Index, Mech w/impact	60	°C	UL 746B
Relative Temp Index, Mech w/o impact	60	°C	UL 746B
PHYSICAL	Value	Unit	Standard
Specific Gravity	1.22	-	ASTM D 792
Mold Shrinkage, flow, 3.2 mm	0.3 - 0.5	%	SABIC Method
Mold Shrinkage, xflow, 3.2 mm	0.4 - 0.6	%	SABIC Method
Melt Flow Rate, 260°C/2.16 kgf	16.4	g/10 min	ASTM D 1238
FLAME CHARACTERISTICS	Value	Unit	Standard
	1.19	mm	UL 94
UL Recognized, 94V-0 Flame Class Rating (3)			

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	80 - 90	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.04	%
Melt Temperature	245 - 275	°C

Nozzle Temperature	245 - 275	°C		
Front - Zone 3 Temperature	245 - 275	°C		
Middle - Zone 2 Temperature	220 - 265	°C		
Rear - Zone 1 Temperature	220 - 255	°C		
Mold Temperature	60 - 80	°C		
Back Pressure	0.3 - 0.7	MPa		
Screw Speed	40 - 70	rpm		
Shot to Cylinder Size	30 - 80	%		
Vent Depth	0.038 - 0.076	mm		
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Source GMD, last updated:07/14/2002

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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