



Cycoloy* Resin C1200HF

Americas: COMMERCIAL

PC+ABS, excellent flow/impact/high heat resistance. Low temperature ductility. For automotive, appliance and electrical components.

	You may also be interested in:			
Property		ced Property	Data Sheet	
TYPICAL PROPERTIES (1)	Improved Flow/Impact Balance		CU1650 Additional Info	
MECHANICAL	Value	Unit	Standard	
Tensile Stress, yld, Type I, 50 mm/min	57	MPa	ASTM D 638	
Tensile Strain, yld, Type I, 50 mm/min	5	%	ASTM D 638	
Tensile Strain, brk, Type I, 50 mm/min	150	%	ASTM D 638	
Tensile Modulus, 50 mm/min	2270	MPa	ASTM D 638	
Flexural Stress, yld, 1.3 mm/min, 50 mm span	88	MPa	ASTM D 790	
Flexural Modulus, 1.3 mm/min, 50 mm span	2340	MPa	ASTM D 790	
IMPACT	Value	Unit	Standard	
Izod Impact, notched, 23°C	587	J/m	ASTM D 256	
Izod Impact, notched, -30°C	480	J/m	ASTM D 256	
Instrumented Impact Total Energy, 23°C	54	J	ASTM D 3763	
Instrumented Impact Total Energy, -30°C	54	J	ASTM D 3763	
THERMAL	Value	Unit	Standard	
HDT, 0.45 MPa, 3.2 mm, unannealed	129	°C	ASTM D 648	
HDT, 1.82 MPa, 3.2mm, unannealed	112	°C	ASTM D 648	
CTE, -40°C to 40°C, flow	7.2E-05	1/°C	ASTM E 831	
Vicat Softening Temp, Rate B/50	130	°C	ISO 306	
Relative Temp Index, Elec	105	°C	UL 746B	
Relative Temp Index, Mech w/impact	80	°C	UL 746B	
Relative Temp Index, Mech w/o impact	105	°C	UL 746B	
PHYSICAL	Value	Unit	Standard	
Specific Gravity	1.15	-	ASTM D 792	
Mold Shrinkage, flow, 3.2 mm	0.5 - 0.7	%	SABIC Method	
Melt Flow Rate, 260°C/5.0 kgf	19	g/10 min	ASTM D 1238	
ELECTRICAL	Value	Unit	Standard	
Hot Wire Ignition (PLC)	3	PLC Code	UL 746A	
High Ampere Arc Ign, surface {PLC}	1	PLC Code	UL 746A	
Comparative Tracking Index (UL) {PLC}	2	PLC Code	UL 746A	
FLAME CHARACTERISTICS	Value	Unit	Standard	
UL Recognized, 94HB Flame Class Rating (3)	1.19	mm	UL 94	
CSA (See File for complete listing)	LS88480	File No.	CSA LISTED	

Source GMD, last updated:04/11/2001

Processing

Parameter		
Injection Molding	Value	Unit
Drying Temperature	105 - 110	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	8	hrs

Maximum Moisture Content	0.04	%
Melt Temperature	275 - 300	°C
Nozzle Temperature	275 - 300	°C
Front - Zone 3 Temperature	260 - 300	°C
Middle - Zone 2 Temperature	255 - 295	°C
Rear - Zone 1 Temperature	250 - 290	°C
Mold Temperature	60 - 90	°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

Source GMD, last updated:04/11/2001

• NOTE: Back Pressure, Screw Speed, Shot to Cylinder Size and Vent Depth are only mentioned as general guidelines. These may not apply or need adjustment in specific situations such as low shot sizes, thin wall molding and gas-assist molding.

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.

DISCIAIMER: THE MATERIALS AND PRODUCTS OF THE BUSINESSES MAKING UP THE SABIC INNOVATIVE

- (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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