



Cycoloy* Resin C1200HF Americas: COMMERCIAL

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

		You may als	o be intereste	d in:
		Enhanced Property	Data Sheet	
		Improved Flow/Impact Balance	CU1650	Additonal Informati
TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT STANDARD		
MECHANICAL				
Tensile Stress, yld, Type I, 50 mm/min	580	kgf/cm²	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	23200	kgf/cm ²	ASTM D 638	
Flexural Stress, yld, 1.3 mm/min, 50 mm span	890	kgf/cm ²	ASTM D 790	
Flexural Modulus, 1.3 mm/min, 50 mm span	23900	kgf/cm ²	ASTM D	790
IMPACT				
Izod Impact, notched, 23°C	59	cm-kgf/cm	ASTM D	256
Izod Impact, notched, -30°C	49	cm-kgf/cm	ASTM D 256	
Instrumented Impact Total Energy, 23°C	553	cm-kgf	ASTM D 3763	
Instrumented Impact Total Energy, -30°C	553	cm-kgf	ASTM D 3763	
THERMAL				
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				
Specific Gravity	1.15	-	ASTM D 792	

Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 230C/50% relative humidity. All properties, expect the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

%

g/10 min

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

ASTM D 1238

Source, GMD, Last Update:

Mold Shrinkage, flow, 3.2 mm (5)

Melt Flow Rate, 260°C/5.0 kgf

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0.5 - 0.7

19

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Cycoloy* Resin C1200HF

Americas: COMMERCIAL

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD
ELECTRICAL			
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			
UL Recognized, 94HB Flame Class Rating (3)	1.19	mm	UL 94

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT
Injection Molding		
Drying Temperature	100 - 110	°C
Drying Time	3 - 4	hrs
Drying Time (Cumulative)	8	hrs
Maximum Moisture Content	0.02	%
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
Hopper Temperature	60 - 80	°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

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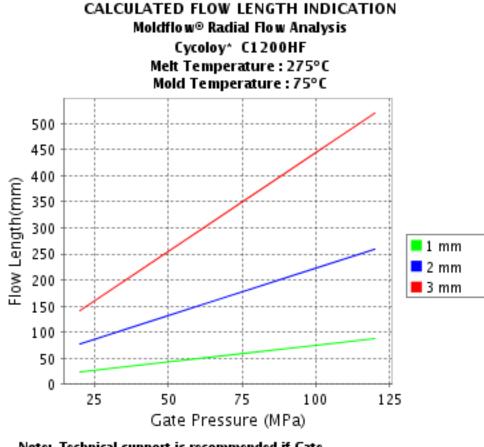
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Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative. [®] Moldflow is a registered trademark of the Moldflow Corporation.

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