

Cycoloy* Resin C1200HF Asia Pacific: COMMERCIAL

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

You may also be interested in:				
Enhanced Property	Data Sheet			
Improved Flow/Impact Balance	CU1650	Additonal Information		

TYPICAL PROPERTIES 1	TYPICAL VALUE	UNIT	STANDARD		
MECHANICAL					
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	100	%	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					
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					
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		
Mold Shrinkage, flow, 3.2 mm (5)	0.5 - 0.7	%	SABIC Method		
Melt Flow Rate, 260°C/5.0 kgf	19	g/10 min	ASTM D 1238		
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					
1) Typical values only. Variations within normal tolerances are possible for variose colours. All values are Une Recognizing Fig. 4944-1855 (aparts 2013) (See Reciting (S					

All properties, except the melt volume rate are r All samples are prepared according to ISO 294.

Source, GMD, Last Update:09/21/2011

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³⁾ This family is not interest of the processing of the composition of

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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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Typical values only. Variations within normal tolerances are possible for variose colours. All values are measured at least after 48 hours storage at 2300/50% relative humidity.
 All properties, except the melt volume rate are measured on injection moulded samples. All samples are prepared according to ISO 294.

²⁾ Only typical data for material selection purpose. 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) Own measurement according to UL.
5) Measurements made from laboratory test coupon. Actual shrinkage may vary outside of range due to differences in processing conditions, equipment, part geometry and lool design. It is recommended that mold shrinkage studies be performed with surrogate or legacy tooling prior to cutting tools for new molded article.

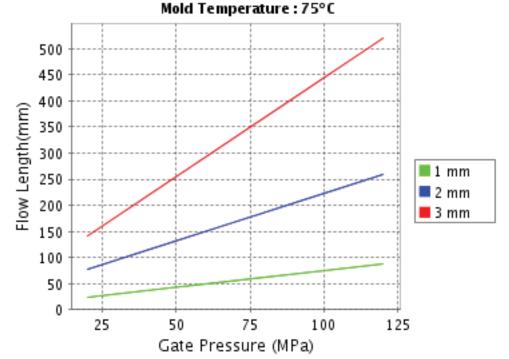
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CALCULATED FLOW LENGTH INDICATION Moldflow® Radial Flow Analysis

Cycoloy* C1200HF Melt Temperature: 275°C



Note: Technical support is recommended if Gate Pressure is greater than 80 MPa. Contact your local representative.

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