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### Cycoloy\* Resin CM6140 **Americas: COMMERCIAL**

Cycoloy resin grade CM6140 is a flame retardant, filled PC/ABS blend. It is of non-brominated & non-chlorinated FR system to meet UL94 V0 at 0.8mm. Key features include thin wall FR, higher stiffness, balanced properties in flow, impact and heat designed for various thin wall applications.

TYPICAL PROPERTIES <sup>1</sup>	TYPICAL VALUE	UNIT	STANDARD
MECHANICAL			
Tensile Stress, yld, Type I, 50 mm/min	660	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Stress, yld, Type I, 5 mm/min	660	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Stress, brk, Type I, 5 mm/min	500	kgf/cm <sup>2</sup>	ASTM D 638
Tensile Strain, yld, Type I, 5 mm/min	4	%	ASTM D 638
Tensile Strain, brk, Type I, 5 mm/min	100	%	ASTM D 638
Tensile Modulus, 5 mm/min	35600	kgf/cm <sup>2</sup>	ASTM D 638
Flexural Stress, yld, 1.3 mm/min, 50 mm span	1010	kgf/cm <sup>2</sup>	ASTM D 790
Flexural Modulus, 1.3 mm/min, 50 mm span	33600	kgf/cm <sup>2</sup>	ASTM D 790
Tensile Stress, break, 5 mm/min	50	MPa	ISO 527
Tensile Strain, yield, 5 mm/min	3.5	%	ISO 527
Tensile Strain, break, 50 mm/min	15	%	ISO 527
Tensile Modulus, 1 mm/min	3200	MPa	ISO 527
Flexural Stress, yield, 2 mm/min	97	MPa	ISO 178
Flexural Modulus, 2 mm/min	3450	MPa	ISO 178
IMPACT			
Izod Impact, notched, 23°C	20	cm-kgf/cm	ASTM D 256
Izod Impact, notched, -30°C	8	cm-kgf/cm	ASTM D 256
Instrumented Impact Total Energy, 23°C	509	cm-kgf	ASTM D 3763
Izod Impact, notched 80*10*3 +23°C	10	kJ/m²	ISO 180/1A
Izod Impact, notched 80*10*3 -30°C	5	kJ/m²	ISO 180/1A
Charpy 23°C, V-notch Edgew 80*10*3 sp=62mm	10	kJ/m²	ISO 179/1eA
Charpy -30°C, V-notch Edgew 80*10*3 sp=62mm	5	kJ/m²	ISO 179/1eA

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 met 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 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.

Dongguan Yi-Ming Plastic Chemical Co., Ltd.

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# Cycoloy\* Resin CM6140

#### **Americas: COMMERCIAL**

TYPICAL VALUE	UNIT	STANDARD
3.54E+15	Ohm	ASTM D 257
0.6	mm	UL 94
0.8	mm	UL 94
1.5	mm	UL 94
0.8	mm	IEC 60695-2-12
850	°C	IEC 60695-2-13
800	°C	IEC 60695-2-13
	3.54E+15 0.6 0.8 1.5 0.8 850	3.54E+15 Ohm   0.6 mm   0.8 mm   1.5 mm   0.8 mm   850 °C

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PROCESSING PARAMETERS	TYPICAL VALUE	UNIT	
Injection Molding			
Drying Temperature	90	°C	
Drying Time	>4	hrs	
Maximum Moisture Content	0.04	%	
Melt Temperature	275 - 300	°C	
Nozzle Temperature	280 - 300	°C	
Front - Zone 3 Temperature	280 - 300	°C	
Middle - Zone 2 Temperature	275 - 300	°C	
Rear - Zone 1 Temperature	275 - 300	°C	
Mold Temperature	60 - 80	°C	

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