

Product Texts

CYCOLOY CX2244ME Polycarbonate/Acrylonitrile Butadiene Styrene (PC/ABS) blend is an injection moldable, medium flow, non chlorinated/brominated flame retardant grade. It has a UL94 V0@0.75mm and 5VB@1.5mm flame rating. This grade has improved chemical resistance compared to standard PC/ABS blends and is a good candidate for thin wall applications and hospital/medical equipment.

UL Yellow Card Link [E207780-525075](https://www.ul.com/yellow-card/E207780-525075)

Processing/Physical Characteristics	Value	Unit	Test Standard
ISO Data			
Melt volume-flow rate, MVR	15	cm ³ /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
Density of melt	1060	kg/m ³	-
Thermal conductivity of melt	0.24	W/(m K)	-
Spec. heat capacity of melt	2050	J/(kg K)	-
Ejection temperature	94	°C	-
ASTM Data			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-
Mechanical properties			
ISO Data			
Tensile Modulus	2600	MPa	ISO 527
Yield stress	65	MPa	ISO 527
Yield strain	4	%	ISO 527
Stress at break	50	MPa	ISO 527
Strain at break	50	%	ISO 527
Flexural modulus	2500	MPa	ISO 178
Charpy notched impact strength, +23°C, 3mm	40	kJ/m ²	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	10	kJ/m ²	ISO 179/1eA
Izod notched impact strength, +23°C, 3mm	40	kJ/m ²	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	10	kJ/m ²	ISO 180/1A
ASTM Data			
Tensile Modulus	2600	MPa	ASTM D 638
Tensile Strength at Yield	65	MPa	ASTM D 638
Tensile Strength at Break	58	MPa	ASTM D 638
Elongation at Yield	4.1	%	ASTM D 638
Elongation at Break	100	%	ASTM D 638
Flexural Modulus	2500	MPa	ASTM D 790
Izod Impact notched, 1/8 in	700	J/m	ASTM D 256
Izod Impact notched, Low-Temperature	175	J/m	ASTM D 256
Temperature	-30	°C	-
Thermal properties			
ISO Data			
Temp. of deflection under load, 1.80 MPa	93	°C	ISO 75-1/-2
Vicat softening temperature, B	110	°C	ISO 306
Vicat softening temperature, 120°C/h 50N	113	°C	ISO 306
Coeff. of linear therm. expansion, parallel	77	E-6/K	ISO 11359-1/-2
Coeff. of linear therm. expansion, normal	77	E-6/K	ISO 11359-1/-2
Burning behav. at thickness h	V-0	class	IEC 60695-11-10
Thickness tested	0.8	mm	-
Burning behav. 5V at thickness h	5VB	class	IEC 60695-11-20
Thickness tested	1.5	mm	-
Glow Wire Flammability Index (GWFI)	960	°C	IEC 60695-2-12
Glow Wire Ignition Temperature (GWIT)	800	°C	IEC 60695-2-13
GWIT - thickness tested (3)	3	mm	-

CYCOLOY™ FR Resin CX2244ME - Asia

(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

ASTM Data

DTUL @ 264 psi	89	°C	ASTM D 648
Vicat Temperature	110	°C	ASTM D 1525

Electrical properties

	Value	Unit	Test Standard
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ISO Data

Volume resistivity	>1E13	Ohm*m	IEC 62631-3-1
Surface resistivity	>1E15	Ohm	IEC 62631-3-2
Electric strength	35	kV/mm	IEC 60243-1

Other properties

	Value	Unit	Test Standard
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Water absorption	0.2	%	Sim. to ISO 62
Humidity absorption	0.1	%	Sim. to ISO 62
Density	1200	kg/m ³	ISO 1183
Density	1190	kg/m ³	ASTM D 792

Processing Recommendation Injection Molding

	Value	Unit	Test Standard
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Pre-drying - Temperature	80 - 90	°C	-
Pre-drying - Time	2 - 4	h	-
Processing humidity	≤0.02	%	-
Melt temperature	250 - 300	°C	-
Mold temperature	60 - 85	°C	-
Feed temperature	60 - 80	°C	-
Zone 1	230 - 280	°C	-
Zone 2	240 - 290	°C	-
Zone 3	250 - 300	°C	-

Characteristics**Processing**

Injection Molding

Chemical Resistance

General Chemical Resistance

Additives

Flame retarding agent

Regional Availability

Asia Pacific

Special Characteristics

Flame retardant