

**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 [E45329-564206](https://www.ulprospector.com/usa/Products/Plastics/PC-ABS/2244ME)

Processing/Physical Characteristics	Value	Unit	Test Standard
<b>ISO Data</b>			
Melt volume-flow rate, MVR	15	cm <sup>3</sup> /10min	ISO 1133
Temperature	260	°C	-
Load	2.16	kg	-
Density of melt	1060	kg/m <sup>3</sup>	-
Thermal conductivity of melt	0.24	W/(m K)	-
Spec. heat capacity of melt	2050	J/(kg K)	-
Ejection temperature	94	°C	-
<b>ASTM Data</b>			
Melt Flow Index, MFI	18	g/10min	ASTM D 1238
Temperature	260	°C	-
Load	2.16	kg	-
<b>Mechanical properties</b>			
<b>ISO Data</b>			
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 <sup>2</sup>	ISO 179/1eA
Charpy notched impact strength, -30°C, 3mm	10	kJ/m <sup>2</sup>	ISO 179/1eA
Izod notched impact strength, +23°C, 3mm	40	kJ/m <sup>2</sup>	ISO 180/1A
Izod notched impact strength, -30°C, 3mm	10	kJ/m <sup>2</sup>	ISO 180/1A
<b>ASTM Data</b>			
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	-
<b>Thermal properties</b>			
<b>ISO Data</b>			
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 - Europe**  
(PC+ABS)

Saudi Basic Industries Corporation (SABIC)

**ASTM Data**

DTUL @ 264 psi	<b>89</b>	°C	ASTM D 648
Vicat Temperature	<b>110</b>	°C	ASTM D 1525

**Electrical properties**

	<b>Value</b>	<b>Unit</b>	<b>Test Standard</b>
<b>ISO Data</b>			
Volume resistivity	<b>&gt;1E13</b>	Ohm*m	IEC 62631-3-1
Surface resistivity	<b>&gt;1E15</b>	Ohm	IEC 62631-3-2
Electric strength	<b>35</b>	kV/mm	IEC 60243-1

**Other properties**

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

**Processing Recommendation Injection Molding**

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

**Characteristics****Processing**

Injection Molding

**Additives**

Flame retarding agent

**Special Characteristics**

Flame retardant

**Chemical Resistance**

General Chemical Resistance

**Regional Availability**

Europe