



Covestro Polycarbonates for Healthcare

Disinfectant Compatibility Guide



Navigate Healthcare Material Selection with Confidence

Medical device manufacturers face increasing pressure to deliver products that withstand aggressive disinfection protocols while maintaining performance and aesthetics. Covestro polycarbonate (PC) and blend solutions deliver the proven durability your devices need to succeed in demanding clinical environments.

This guide is built on standardized testing protocols, providing the data your engineering teams need to make confident material selections and support regulatory submissions.

Covestro Healthcare Solutions

Makroblend® PC + Polyester

Durable, extra-tough with excellent chemical resistance

- Durable monitors
- Wearable devices

Makrolon® Polycarbonate

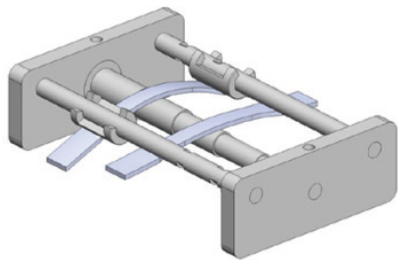
High performance, transparency, and dimensional stability

- Medical devices
- Equipment housings

Bayblend® PC + ABS

High flow, complex geometries, and excellent surface quality

- Drug delivery devices
- Equipment housings



Variable strain fixture for chemical resistance testing

Proven Testing Methodology

Each material was tested utilizing the bent strip method (ASTM D543-21 practice B, ISO 22088-3:2006) at multiple flexural strains. Each specimen was wiped with the agent 10 times allowing for drying between each wipe. Specimens were removed from the fixtures after 24 hours total exposure to strain.

Specimens were closely inspected for visual cracking or crazing, then tested for tensile properties, according to ASTM D638. Based on these evaluations the samples were given a rating:

- **Resistant:** No cracking or mechanical properties loss at $\geq 1.0\%$ flexural strain
- **Limited resistance:** Onset of cracking and/or mechanical properties reduction at $0.6\text{--}0.8\%$ flexural strain
- **Not resistant:** Cracking and/or mechanical properties reduction observed at $<0.6\%$ flexural strain

Chemical Resistance of Covestro Polycarbonate Grades

		Flame retardant	Medical Grade	Dispatch® Hospital Cleaner	Opti-Cide ³⁰	Oxivir® Five 16	Super Sani-Cloth®	Virex® II 256	CaviWipes™ Bleach	Sani-Cloth® Bleach	Sani-Cloth® Prime	Clorox Healthcare® Bleach	Sani-Cloth® Plus	Clorox Healthcare® VersaSure®	CaviWipes™ 2.0	CaviWipes™	Opti-Cide MAX®	Clorox Healthcare® Hydrogen Peroxide	CaviWipes™ HP	Oxivir® 1 Wipes	Oxivir® Tb Wipes	Sani-HP1™	CaviWipes1™	Sani-HyPerCide®	Sani-Cloth® AF3
Makroblend® PC+Polyester	M325		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	L	L
	M525		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	L	L
	M4000 FR	✓	✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	L	L
	EL703	✓		R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	R	L	N	L	L	L
	EL700	✓		R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	L	R	L	L	L	L	N
	M5005 FR	✓	✓	R	R	R	R	R	R	R	R	R	R	L	L	L	L	N	R	R	R	R	N	L	N
Makrolon® PC	M6011 FR	✓	✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	R	R	R	R	L	L
	3108		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	R	R	L	L
	2458		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	L	R	L	L	N	L	R	N	L
Bayblend® PC+ABS	M750		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	L	R	L	L	L	N
	M850 XF		✓	R	R	R	R	R	R	R	R	R	R	R	R	R	R	L	R	N	L	L	N	N	N
	M303 FR	✓	✓	R	R	R	R	R	R	R	R	R	R	R	R	L	R	R	N	N	N	N	L	N	N
	M301 FR	✓	✓	R	R	R	R	R	R	R	R	L	L	L	L	L	L	N	N	N	N	N	N	N	N
	FR3010	✓		R	R	R	R	R	R	L	L	L	L	L	L	L	L	L	N	N	N	N	N	N	N
	FR3005 HF	✓		R	R	R	R	R	L	L	L	L	L	L	L	N	N	N	N	N	N	N	N	N	N

R	Resistant: No cracking or mechanical properties loss at ≥1.0% flexural strain
L	Limited resistance: Onset of cracking and/or mechanical properties reduction at 0.6-0.8% flexural strain
N	Not resistant: Cracking and/or mechanical properties reduction observed at <0.6% flexural strain

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5/2026