



Clinical confidence

Eastman Tritan™ copolyester for medical devices

Protect patient health and safety

Tritan is built to withstand clinical use and cleaning, so devices stay safer and maintain a premium look for life. With more durability, faster regulatory clearance, no materials of concern (MOCs), a stronger brand story and the advantage of a material already validated in the harshest environments, competitors can't match the advantages of Tritan for medical devices.

A clear advantage

World-class manufacturer Elcam Medical chose Tritan for its new stopcocks and connectors. Elcam wanted a solution to provide safe and effective fluid management devices. Tritan provides a drug- and lipid-resistant, BPA-free solution. Because our copolyester maintains its clarity and transparency — even after stringent sterilization techniques — potential problems like air bubbles in the stopcocks can be easily detected. The Elcam stopcock made with Tritan improves patient safety and reduces risks, making it a clear choice for medical device manufacturers.

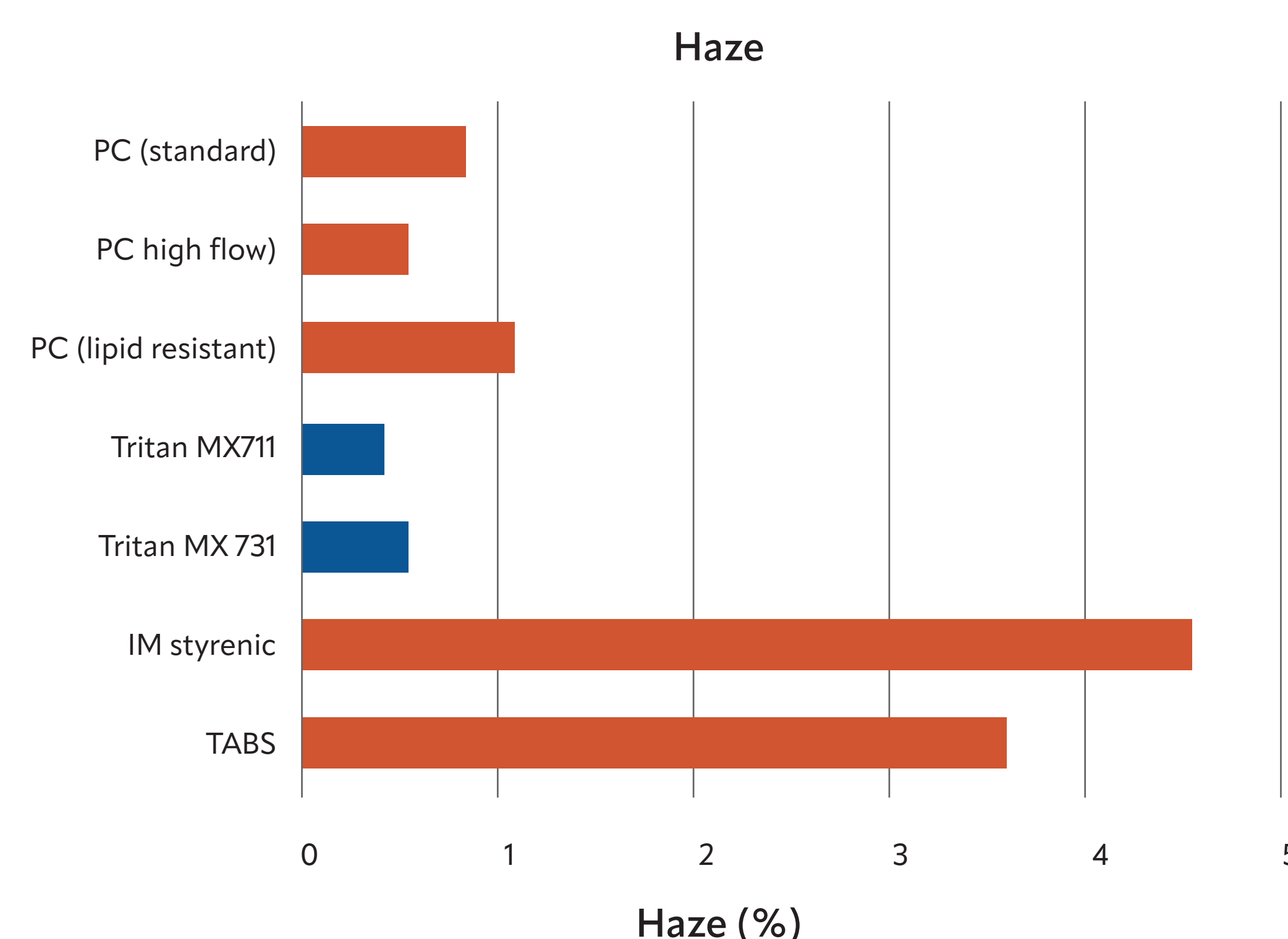
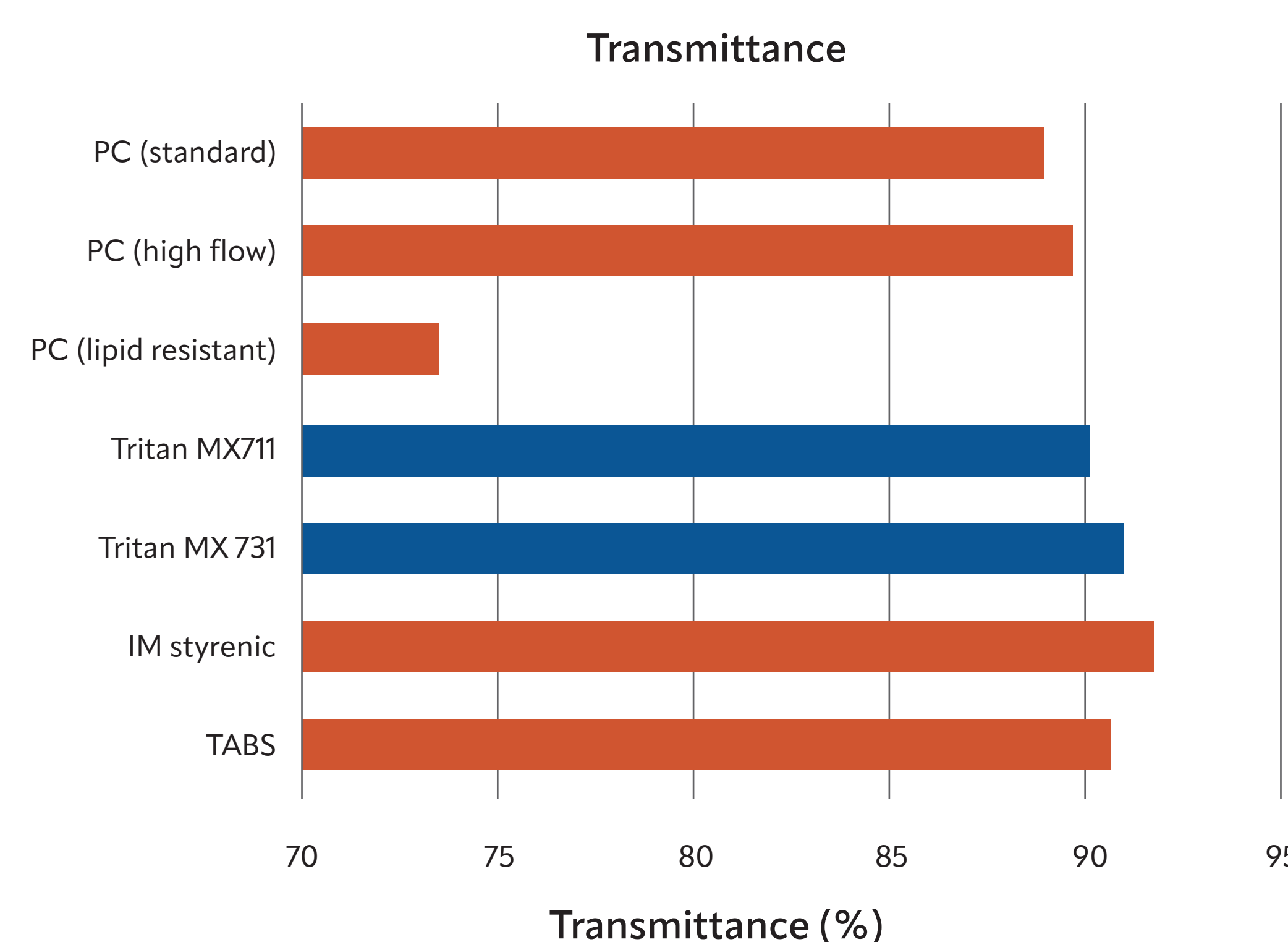
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 Clarity	 Durability	 Chemical resistance	 MOC-free
Glasslike clarity Full, customizable color palette, enabling OEMs to match any brand aesthetic Quality remains, even after repeated exposure to harsh cleaning chemicals and high-heat dishwasher cycles Devices look fresh and premium for their entire service life	Delivers drop-proof toughness and fatigue resistance Crack-defying resilience keeps housings and connectors intact through daily knocks and accidental drops Cuts warranty claims, service calls and overall costs	Stands up to repeated exposure to harsh cleaning chemicals, oncology drug cocktails and radiation sterilization Reduces part replacement frequency Supports infection-control goals Keeps devices looking and performing like new	No BPA, PFAS, DHEP or halogens Reduces substances-of-concern audits

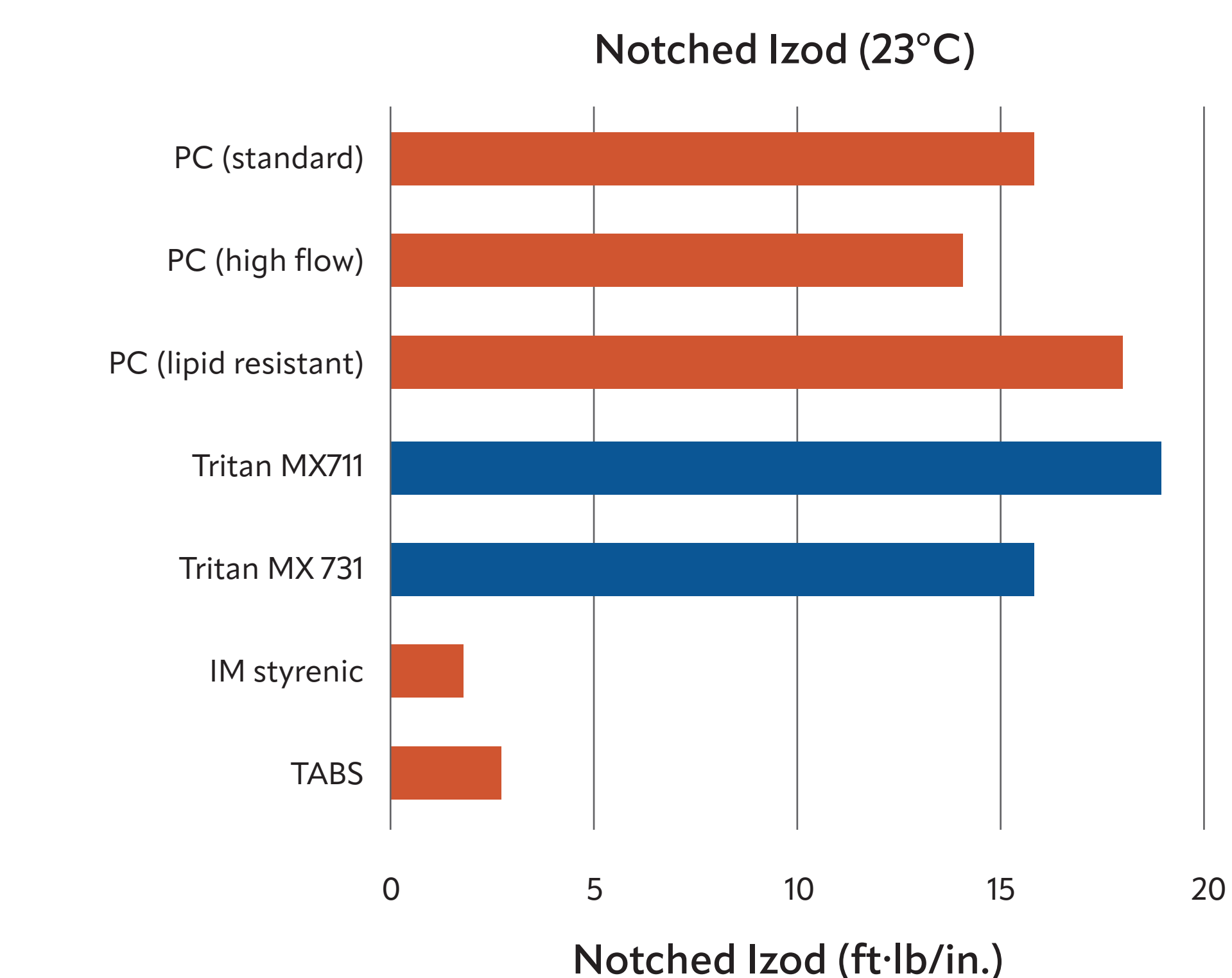
Clarity

Eastman copolyesters have a good balance of high transmittance and low haze, highlighting their glasslike clarity. This provides an ideal product for fluid management components that require transparency.



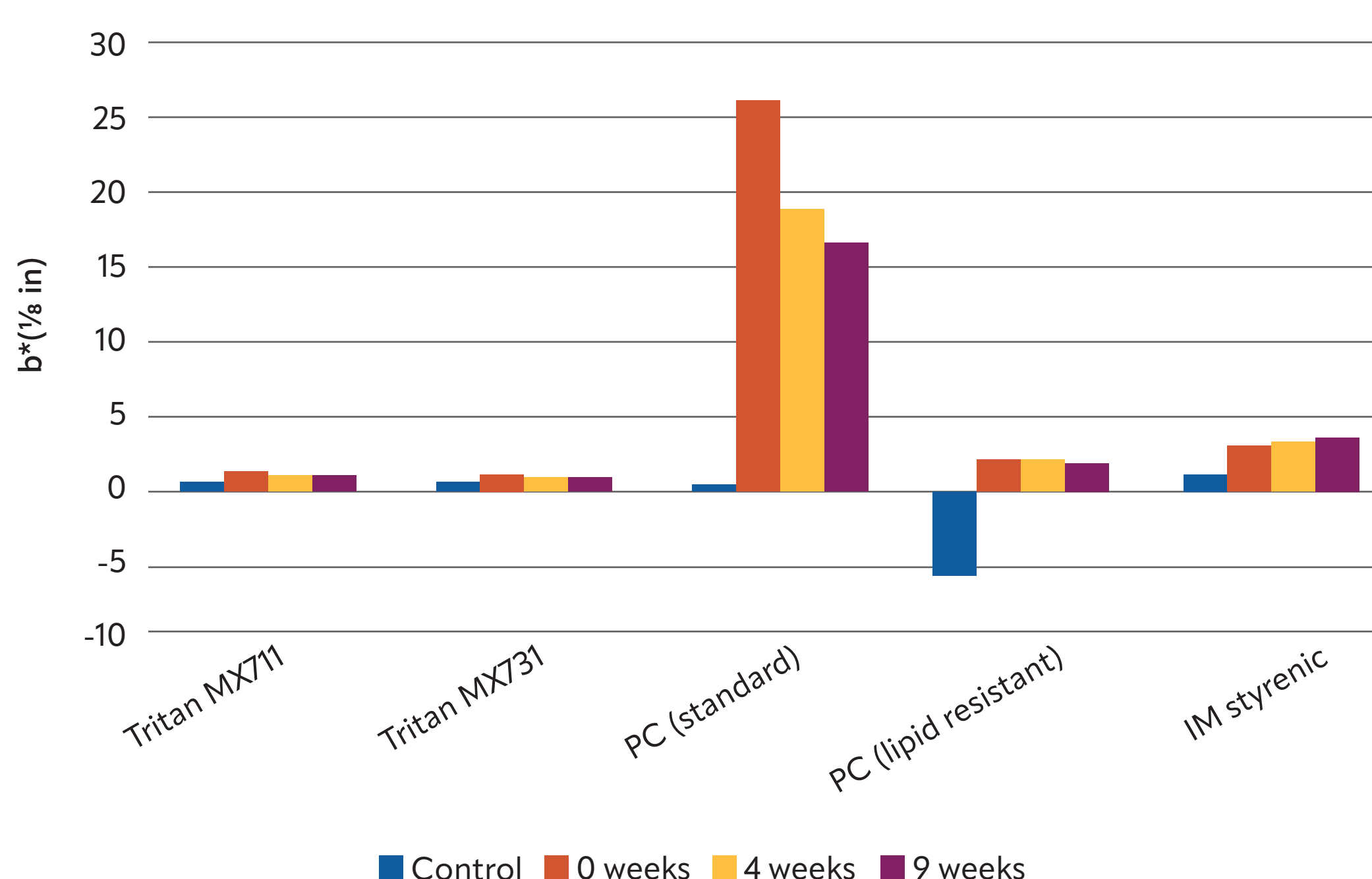
Impact resistance

Tritan's superior toughness supports excellent drop impact resistance and provides strength and durability to medical devices.



Color retention

Tritan copolyesters have best-in-class color retention after 50 kGy gamma sterilization, while polycarbonates have permanent yellow color shift after gamma sterilization. Less color shift means better aesthetics and patient comfort.



Chemical resistance

A four-step test (modified ASTM D543 test) was adopted to characterize the reverse-side impact property retention to evaluate the material's chemical resistance. Tritan exhibited the best property retention against oncology drugs, while high-flow polycarbonate and IM styrenics show poor property retention against oncology drugs.

