

Tygon[®] XLCOMP 60 IB Tubing

HIGH PERFORMANCE TUBING FOR RESIN INJECTION & TRANSFER MOLDING FOR COMPOSITES PARTS

Tygon[®] XLCOMP 60 IB tubing has been specifically designed to meet the severe and demanding composites manufacturing field and handling resin media. Whereas in an effort to increase final part quality, production-efficiency and velocity of those processes, the technical requirements for resin injection (RTM) or infusion are increasingly becoming the key-parameters for the OEM.

Temperature and Pressure

To assure proper resin transfer, Tygon[®] XLCOMP 60 IB tubing is designed to withstand high temperatures up to 200°C and injection pressure up to 8,5 bars. Made of silicone material and approved by aircraft manufacturers, this specific formulation is the ideal choice resin conveyance.

Transparent and Flexible

The tubing transparency permits visual observation of the resin being conveyed, enabling the user/operator to carefully monitor the injection process. Also, the flexibility allows for easy installation on every machine.

Manifold

- Ease of installation
- Ready to connect
- Safe connections



Features and Benefits

- High temperature resistance
- High pressure resistance
- Compatible with injection resin (RTM6 in particular)
- Excellent tear resistance
- Designed specifically for resin injection
- Smooth inner bore
- Transparent
- Excellent bend radius

Compliance

- Airbus qualified material



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ID		OD		Hardness (Shore A)	Maximum Recommended Service Pressure at 23°C*		Burst Pressure at 23°C**		Rolls Delivery		Materials Type
(mm)	(in)	(mm)	(in)		(bars)	(PSI)	(bars)	(PSI)	(m)	(in)	
7	0.28	13.2	0.52	60	6.25	91	25	363	25	984	Airbus approved, 60 Sh A
7	0.28	13.2	0.52	70	8	116	32	464	25	984	Saint-Gobain material, 70 Sh A

*: ratio Burst/Operating pressure according ISO 7751:2016

**: tests performed according ISO 1402:2009

Saint-Gobain internal testing showed a decrease of 20% of the burst pressure when used at 200°C

Available Options

Tygon® XLCOMP 60 IB tubing is available in custom sizes, lengths, lay lines, and durometers.

The values listed for working and burst pressures are derived from tests conducted under controlled laboratory conditions. Many factors will reduce the tubing's ability to withstand pressures, including temperature, chemical attack, stress, pulsation and the attachment to fittings. It is imperative that the user conduct tests simulating the conditions of the application prior to specifying the tubing for use.



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NOTE: The data and details given in this document are correct and up to date. This document is intended to provide information about the product and possible applications. This document is not the product specification and does not provide specific features, nor does it guarantee product performance in specific applications. Saint-Gobain cannot anticipate or control the conditions of the field and for this reason strongly recommends that practical tests are conducted to ensure that the product meets the requirements of a specific application.

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