

 <p>POLYPROCESSING COMPANY <i>Providing Solutions Through Innovation</i></p>	Technical Bulletin	Poly Processing Company
	Ryton Chemical Bolts	Date: February 5, 1999 Rev: N/A #: T-0004

Ryton®Chemical Bolts (Donkers)

Increased customer demand for high performance and cost-effective chemical bolts has led Poly Processing Company to develop the Ryton®chemical bolt. This polyphenylene sulfide (PPS) Ryton®chemical bolt is manufactured totally out of plastic. The stable aromatic chemistry of Ryton®PPS chemical bolts yields several attractive benefits for the Poly Processing Company storage tank user. Some of the benefits include:

- ◆ Remarkable endurance at very high temperatures
- ◆ Outstanding resistance to a broad spectrum of aggressive chemicals:
 - ◆ *Except for chemicals that attack glass such as Hydrofluoric Acid, Hydrofluosilicic Acid (Fluosilicic Acid), and Hydrogen Fluoride. This limitation is put on the chemical bolts because they are molded from glass filled Ryton®.*
- ◆ Precise, stable and reproducible dimensions in the chemical bolt application
- ◆ Inherent flame retardant

Poly Processing Company believes that the Ryton®chemical bolts can be used in place of the more expensive metal and alloy bolts in specific applications. The drawback on these bolts is the torque values that have been attained. While they are highly chemical resistant, they do not have enough torque value to be used on the sidewall of storage tanks. The bolts are molded to have a maximum torque value of 25 ft. lbs. without breaking. It is possible that the bolt could shear with a torque value greater than 25 ft. lbs. Therefore Poly Processing Company recommends use of these bolts in the following applications:

- ◆ Dome fittings which are not under liquid pressure
- ◆ Sealed lids
- ◆ Dome attachments (i.e. sonic level indicators, transducers, etc.)
- ◆ Open top lid attachments

Poly Processing Company recommends a torque value of 10 –15 ft. lbs. when installing fittings in the dome of a storage tank.

Please contact your sales representative for prices and availability.