

Chemraz® 605

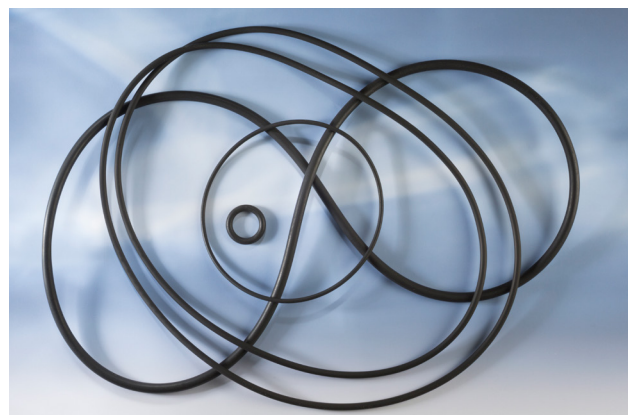
High-Performance Seals for Critical Instruments

Material Description

Chemraz® is a black synthetic rubber used to make high-performance seals and flexible parts with chemical and thermal compatibility similar to PTFE. Chemraz® 605 is an ideal material for seals in in-vitro diagnostic (IVD), histology, analytical, and lab instrumentation.

Seals made from Chemraz® 605 maintain performance in nearly all relevant solvent and temperature combinations, typically for orders of magnitude longer than other seal materials, such as EPDM, silicone, or FKM.

Typical Properties	
Physical Properties (ASTM Standard)	Typical
Color	Black
Specific Gravity (D297)	1.97
Hardness, Shore A (D2240)	80
Mechanical (ASTM Standard)	
Tensile Strength, psi (D1414)	2,150
Elongation, % (D1414)	130
Tensile Modulus, psi	
Modulus @ 50% Elongation (D1414)	420
Modulus @ 100% Elongation (D1414)	1,310
Compression Set, 70 Hours @ 400°F (204°C), 25% Deflection, % (D395)	25
Thermal	
Minimum Service Temperature	-4°F (-20°C)
Maximum Service Temperature	500°F (260°C)



Chemical Compatibility

Compared to other types of seals, Chemraz® 605 offers superior chemical compatibility. Greene Tweed has collected Chemraz® 605 compatibility data, which can be viewed on our [website](#). Our application engineers can also advise on suitability for other compounds and conditions. [Contact us for more information.](#)

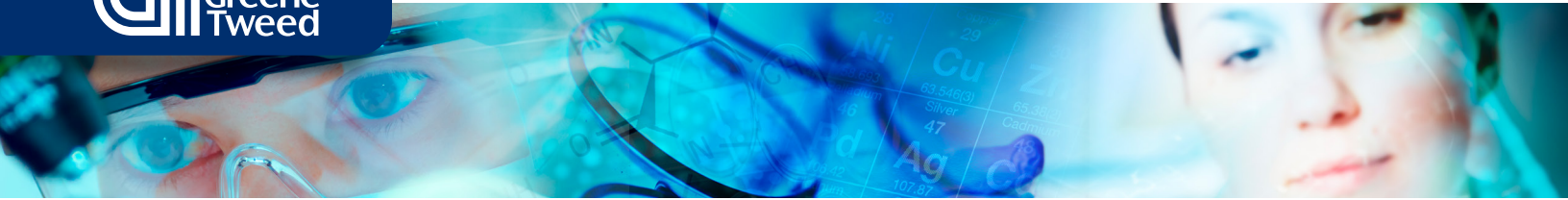
Contact Us

Greene Tweed
Kulpsville, PA, USA

Tel: +1.215.256.9521
Fax: +1.215.256.0189

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.
© 2020, Greene Tweed all rights reserved. All trademarks are property of their respective owners.

02/20-GT DS-US-LS-002



	Chemraz® 605	FKM	Silicone	EPDM
Hydrochloric Acid (HCl)	Excellent	Excellent	Poor	Poor
Sodium Hydroxide	Excellent	Good	Good	Excellent
Xylene & Limonene	Excellent	Good	Not Recommended	Not Recommended
Methanol	Excellent	Not Recommended	Excellent	Excellent
Acetonitrile	Excellent	Not Recommended	Good	Excellent
Steam (275°F/135°C)	Excellent	Good	Poor	Good

How to Use Chemraz® 605

Chemraz® 605 can be ordered as standard seals (e.g., o-rings, gaskets), sheets, or custom shapes, as well as parts of complex assemblies with other components.

Our team is ready to learn about your application and ensure your design or process succeeds. We offer exceptional support to our customers:

- Design and process guidance, optimization, troubleshooting
- Rapid 3D printing form and fit prototypes
- Performance testing and documentation to support validation efforts
- Validated manufacturing processes
- Change control agreements
- Manufacturing facility and quality systems audits

Contact Us

Greene Tweed
Kulpsville, PA, USA

Tel: +1.215.256.9521
Fax: +1.215.256.0189

Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.
© 2020, Greene Tweed all rights reserved. All trademarks are property of their respective owners.

02/20-GT DS-US-LS-002