



Chemraz® 549

Designed Specifically for Bonding Applications

Chemraz® 549 is a specialized FFKM compound developed specifically for elastomer-to-metal bonding applications. The material has been deployed in proprietary bonded seal solutions for permanent completion applications, providing reliable elastomer-to-metal bonding in challenging downhole environments.

Key Features

- Proprietary bonding-enhanced formulation
- Optimized for stainless steel and Inconel metal substrates
- Maintains bond integrity at temperatures exceeding traditional adhesive limitations
- Up to 10× higher bond strength compared with conventional adhesive-only approaches
- Suitable for HPHT service environments

Customer Benefits

- Improved seal reliability
- Extended service life
- Reduced risk of bond-line failure
- Enables innovative bonded sealing solutions
- Reduced non-productive time in critical field applications

Typical Properties - Compound Number: 549

Rubber Classification (ASTM D1418): **FFKM**
Service Temperature Range: -4°F to 600°F (-20°C to 316°C)
Color: **Black**

Description	ASTM Method	Units	Typical
A. Original Properties			
Specific Gravity	D792	—	1.980
Hardness, Type A, Points	D2240	—	95
Tensile Strength @ Break	D412	psi [MPa]	3500 [24.1]
Elongation	D412	%	85
Modulus @ 50% Elongation	D412	psi [MPa]	2300 [15.9]

Z. NOTES

1. Specification: 549
2. Unless otherwise noted, all tests performed on ASTM slabs and buttons.

Greene Tweed

1684 South Broad Street, Lansdale, PA 19446 USA | Phone: (+1) (215) 256-9521

gtweed.com

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