

## Disogrin® 7205 (TODI Urethane)

This material was developed to solve difficult hydraulic applications, and was produced specifically for use as O-rings. It is excellent in applications requiring compatibility with water up to +250°F. It is suitable for use in acids and bases with a pH range from 2-13 at temperatures up to +220°F. It is suitable for petroleum base and most bio-degradable fluids. The material has many of the same excellent mechanical properties as our other Disogrin TODI polyurethane materials including abrasion and extrusion resistance and high tensile strength.

### Features and Benefits

- Hydrolysis (degradation by water) resistant
- Specially suited for biodegradable fluids
- Hot water resistant up to 250°F
- Acids & bases resistant (pH 2-13) up to 220°F
- Oil and abrasion resistant
- Extrusion resistant

### Applications

- Bulldozers
- Construction equipment
- Forklifts
- Mobile lifts
- Agricultural equipment
- Flanges / static seals
- Injection molding machines
- Mobile arm trucks
- Valves
- General cylinders



Material: Premium Urethane, TODI based

### Typical Physical Properties

Color	Natural
Hardness, Shore A	70
Tensile Strength, psi	4,655
Elongation	445
Compression Set: 70 hrs. at 70°C	12
Service Temperature Range, °C (°F)	-54 to 127 (-65 to 260)

### Operating Limits

The operating limits are highly dependent on the application. Combinations of pressure, temperature, fluid medium and other factors all greatly affect the performance and longevity of the seal.

- Pressure: 3,000 psi / 21 Mpa
- Temperature: -48°C to 110°C (-50°F to 220°F)

The information contained herein is believed to be reliable, but no representation, guarantees or warranties of any kind are made to its accuracy or suitability for any purpose. The information presented herein is based on laboratory testing and does not necessarily indicate end product performance. Full scale testing and end product performance are the responsibility of the user.

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