

Clean Sealing Material for Semiconductor, Solar, and Bio Tech Applications

- **zer0 PHA75** is a specially designed material for clean applications in semiconductor and solar.
- **zer0 PHA75** is an off white colored elastomer that does not have any impurities and is optimized for low particle generation.
- **zer0 PHA75** is an unique compound formulation, has minimum particle generation for higher yields and reduced tool maintenance.
- **zer0 PHA75** has seals in a wide range of operating temperatures. Dynamic seals may be held as low as -15° and can withstand temperatures up to 290°C.
- The material is stretchable up to 238% combined with very high tensile strength.
- The broad chemical resistance allows **zer0 PHA75** to be used in a range of plasma chemistries including O₂ and NF₃.

SPECIAL FEATURES

- Ultra Clean
- Very Low Out-gassing
- High Operating Temperature
- Broad Chemical Resistance
- Designed for Dry Semiconductor, Solar Applications
- Very Good Mechanical Properties and Durability in Dynamic Seals/Bellows
- Low Particle Generation

Applications

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| Orings | Dry Etch Processes |
| Custom Seals | Ashing Processes |
| Bonded Gates | All CVD Processes |
| Bellows | PVD Processes |

zer0 PHA75: Typical Physical Properties

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|--|-----------------------|
| Compression Set, Size -214 O-ring, 70 hour @ 204°C | 22 % |
| Tensile at Break | 11.5 MPa, 1668 psi |
| Elongation | 238 % |
| 100% Modulus | 12.8 MPa, 1856psi |
| Durometer, Shore A | 73 |
| Color | Off white-light brown |
| Minimum Operation Temperature | -15 °C |
| Maximum Temperature | +290 °C |
| Special Features | Ultra Clean |