

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

- **zer0 PHA75B** is a specially designed material for clean applications in semiconductor and solar.
- **zer0 PHA75B** is a carbon black elastomer that does not have any impurities and is optimized for low particle generation.
- **zer0 PHA75B** is an unique compound formulation, has minimum particle generation for higher yields and reduced tool maintenance.
- **zer0 PHA75B** has seals in a wide range of operating temperatures. Dynamic seals may be held as low as -15° and can withstand temperatures up to 310°C.
- The material is stretchable up to 214% combined with very high tensile strength.
- The broad chemical resistance allows **zer0 PHA75B** 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 Semiconductor, Solar Applications
- Very Good Mechanical Properties and Durability in Dynamic Seals/Bellows
- Low Particle Generation

Applications

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

zer0 PHA75: Typical Physical Properties

Compression Set, Size -214 O-ring, 70 hour @ 204°C	19 %
Tensile at Break	11.8 MPa, 1711 psi
Elongation	214 %
100% Modulus	12.8 MPa, 1856psi
Durometer, Shore A	73
Color	carbon black
Minimum Operation Temperature	-15 °C
Maximum Temperature	+310 °C
Special Features	Ultra Clean