

# DuPont Kalrez® 8575

For Semiconductor Oxidation, Diffusion, Lamp Anneal and RTP Applications

Technical Information March, 2017

## Product Description

DuPont® Kalrez® 8575 performance parts are a white product for oxidation, diffusion, lamp anneal and RTP sealing applications. Kalrez® 8575 exhibits excellent thermal stability and long-term sealing performance, low infrared (IR) absorption and significantly reduced outgassing properties at elevated temperatures. It also has great mechanical properties and is well suited for both static and low stress/low sealing force applications. A maximum application temperature of 300 °C (572 °F) is suggested. Ultrasonic post-cleaning and packaging is standard for all 8575 parts.



## Key Performance Features Contribute to Extended Seal Life

- White color reduces IR absorption and reduces seal temperature
- Very low outgassing properties
- Excellent (low) compression set properties
- Excellent static recovery properties

## Suggested Applications

- Chamber lids
- Gas inlets
- Quartz windows
- Throttle valves
- Other plasma applications

## Typical Physical Properties<sup>1</sup>

Color	White
Hardness, Shore A (JIS-K)	85
Hardness, Shore D (JIS-K)	74
100% Modulus, MPa (psi)	2.00 (290)
Tensile Strength at Break <sup>2</sup> , MPa (psi)	14.50 (2100)
Elongation at Break <sup>2</sup> , %	500
Compression Set, % 70 hr. at 204 °C (400 °F)	33
Max. Application Temperature <sup>3</sup> , °C (°F)	300 (572)

<sup>1</sup>Parts to be used in applications require:  
• 100% Modulus (2.00 MPa)  
• 14.5 MPa Tensile and 500% Elongation (at 2100 psi and 500% stretch)  
• 33% Compression Set (at 400 °F)  
• 300 °C (572 °F) max. application temperature  
<sup>2</sup>ASTM D412 (see notes on standard test specimens)  
<sup>3</sup>ASTM D412 (see notes on standard test specimens)  
<sup>4</sup>ASTM D412 (see notes on standard test specimens)