# Kimura® K2CD

## Specialty Elastomer

Precision Polymer Engineering Ltd.

#### Message:

A red/brown high performance polymer containing a unique self- reinforcing polymer structure, developed specifically for aggressive semiconductor applications. The high purity of the polymer combined with the absence of any fillers makes this polymer suitable for processes involving lower feature sizes. This material has a low coefficient of thermal expansion, low compression set and has an extremely low etch rate in aggressive plasma environments.

**Key Attributes** 

Exceptionally pure - does not contain any fillers which may cause particulation problems.

Outstanding plasma resistance - ideal for Chlorine, Fluorine & Oxygen chemistries.

Exceptionally low plasma etch rate

Low thermal expansion

Retro-fits existing O-ring grooves (including FKM & FFKM grooves)

Low permeation

Low out-gassing

Low adhesion (reduced sticking)

**Typical Applications** 

Dynamic seals

Static seals

Wafer-handling products

General Information								
Features	The degassing effect is low to no High purity Low CLTE							
					Low compressive deformability			
	Uses	Electrical/Electronic Applications						
Valve/valve components								
Seals								
Accessories								
Appearance	Brown							
	Red							
Hardness	Nominal Value		Test Method					
Durometer Hardness (Shore A)	68		ASTM D2240, ISO 7619					
IRHD Hardness	67		ASTM D1415, ISO 48					
Elastomers	Nominal Value	Unit	Test Method					
Tensile Stress (100% Strain)	8.00	MPa	ASTM D412, ISO 37					
Tensile Strength (Yield)	17.0	MPa	ASTM D412, ISO 37					
Tensile Elongation (Break)	170	%	ASTM D412, ISO 37					
Compression Set (204°C, 72 hr)	15	%	ASTM D395, ISO 815					
Thermal	Nominal Value	Unit						

Maximum Operating Temperature	300	°C	
Coefficient of Linear Thermal Expansion	2.45E-4		
Additional Information			

Minimum Operating Temperature: -15°C (+5°F)

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

## Recommended distributors for this material

# Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533 Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

