

CMS64

CMS64 is a lubricated, reinforced proprietary PTFE material. This material is specifically designed for rider bands, piston rings, and other wear components in lube fed (or non-lube), reciprocating compressors operating in demanding environments such as H2S and CO2 Services.

Physical Properties	ASTM Method	Typical Values
Specific Gravity	D792	1.84 gr/cm ³
Water Absorption (24hrs. @73.4°F)	D570	0.15%
Color	N/A	Black
Mechanical Properties		
Tensile Strength	D638	1850 psi
Tensile Elongation	D638	4 %
Flexural Strength	D790	
Flexural Modulus	D790	
Compressive Strength	D695	3200 psi
Compressive Modulus	D695	381,000 psi
Impact Strength (Izod, notched)	D256	
Hardness	Shore D	64
Tribological Properties		
Coefficient of Friction		
Static	D3702	
Dynamic	D3702	0.24
Wear Rate (PV: 20,000 psi-fpm)	D3702	12 µin/min
Thermal Properties		
Coefficient of Linear Thermal Expansion (78 to 200°F)		55 10 ⁻⁶ /°F
(200 to 300°F)	D696	92 10 ⁻⁶ /°F
(300 to 400°F)		122 10 ⁻⁶ /°F
Heat Deflection Temperature (@264 psi)	D648	°F
Glass Transition Temperature (T _g)	D3418	266 °F
Continuous Service Temperature (Max @ no load)		480 °F
Melting Point		648 °F
Electrical Properties		
Volume Resistivity	D257	>10 ⁴ ohm-cm
Dielectric Strength	D149	24 KV / mm
Dielectric Constant	D150	2.1 50Hz, 200°C