

CPI 190

Special polymer alloy for oil-free gas compressor piston and rod seals



CPI 190 is a proprietary polymer alloy developed exclusively by CPI. CPI 190 was created to meet the requirements of specific, demanding, non-lube applications and provide superior performance to other CPI grades.

Some of the main physical properties of CPI 190 are given below.

CPI 190 is not suitable for use in dry air compressors or dry oxygen compressors and is not recommended for use in oil-lubricated compressors.

CPI should be consulted for the proper design and application of its specialized products and materials. For further advice and technical support please contact CPI directly

Typical properties	Metric	Imperial
Tensile strength at 20°C	11.5 MPa	1670 psi
Elongation at 20°C (%)	7.5	7.5
Coefficient of thermal expansion	70-90 x 10 ⁻⁶ /°C	3.9-5.0 x 10 ⁻⁵ /°F
Hardness (Shore 'D')	67-72	67-72
Specific gravity	1.9	1.9
Suggested mean temperature limit (Ts +Td)/2 (non-lube gas compressors)	125 °C	260 °F

Note: The values above are for reference only and are not intended for specification or quality control purposes.