

CPI 568

Valve Disc Material

CPI 568 is a high strength polymer used for valve components requiring high strength, at the same time offering good resistance to high temperatures and chemical resistance to a wide range of gases and liquids.

The high strength of this grade also lends itself to use as pegs for packing rings and other special components, such as valve buttons, unloader components, back-up rings, etc, where the benefits of non-metallic materials are sought.

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	200 MPa	29,000 psi
Elongation at 20°C (%)	1-2	1-2
Coefficient of thermal expansion	$5.2 \times 10^{-6} / ^\circ\text{C}$	$2.9 \times 10^{-6} / ^\circ\text{F}$
Specific gravity	1.4	1.4
Water absorption (%)	0.1	0.1
Flexural strength	317 MPa	46,000 psi
Flexural modulus	17.5 GPa	2.5×10^6 psi
Suggested gas discharge temp. limit	225°C	440°F
Hardness (Shore 'D')	85-90	85-90



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