



CPI 558

Valve Disc Material

Formerly CPI 148

CPI 558 is a proprietary reinforced thermo-plastic material developed for use in CPI compressor valves

CPI 558 offers specific advantages in applications involving aggressive chemical fluids, such as chlorine gas and is usually only selected for chemical compatibility reasons.

CPI should be consulted for the proper design and application of its specialised 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 (%)	5	5
Coefficient of thermal expansion	$16 \times 10^{-5} / ^\circ\text{C}$	$9.0 \times 10^{-5} / ^\circ\text{F}$
Specific gravity	1.5	1.5
Water absorption (%)	0.24	0.24
Flexural strength	330 MPa	47,000 psi
Flexural modulus	$11 \times 10^3 \text{ MPa}$	$16 \times 10^5 \text{ psi}$
Suggested gas discharge temp. limit	175°C	350°F



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