



CPI 592

Valve Disc Material
Formerly CPI 154

CPI 592 is a proprietary reinforced thermo-plastic material developed for use in CPI compressor valves

CPI 592 offers a useful balance of mechanical and thermal properties and may be selected in applications where CPI 543 cannot be applied for temperature reasons.

CPI, part of the Howden group, 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	220 MPa	32,000 psi
Elongation at 20°C (%)	2	2
Coefficient of thermal expansion	$18 \times 10^{-6} / ^\circ\text{C}$	$1.0 \times 10^{-5} / ^\circ\text{F}$
Specific gravity	1.4	1.4
Water absorption (%)	0.2	0.2
Flexural strength	300 MPa	43,000 psi
Flexural modulus	$10 \times 10^3 \text{ MPa}$	$1.4 \times 10^6 \text{ psi}$
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.

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