



# CPI 543

## Valve Disc Material

Formerly CPI 140

**CPI 543 is a proprietary reinforced thermo-plastic material developed for use in CPI compressor valves**

CPI 543 is the most widely selected valve disc material for use in a broad range of operating conditions.

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	185 MPa	26,000 psi
Elongation at 20°C (%)	3-4	3-4
Coefficient of thermal expansion	$32 \times 10^{-6} / ^\circ\text{C}$	$1.8 \times 10^{-5} / ^\circ\text{F}$
Specific gravity	1.37	1.37
Water absorption (%)	0.9	0.9
Flexural strength	260 MPa	37,000 psi
Flexural modulus	$9 \times 10^3$ MPa	$13 \times 10^5$ psi
Suggested gas discharge temp. limit	150°C	300°F



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