



# CPI 590

## Valve Disc Material

Formerly CPI 168

**CPI 590 is a proprietary reinforced thermo-plastic material developed for use in CPI compressor valves**

CPI 590 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	30 MPa	4300 psi
Elongation at 20°C (%)	40	40
Specific gravity	1.8	1.8
Water absorption (%)	0.05	0.065
Flexural strength	40 MPa	5,800 psi
Flexural modulus	$1.5 \times 10^3$ MPa	$2.1 \times 10^5$ psi
Suggested gas discharge temp. limit	130°C	270°F



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