

# Technical Data Sheet

## Permanent Ink – PP170 Series

PP170 series has a very long cap-off time\* and is suitable for use on a range of substrates, including paper, card, OHP film, plastics, metals, glass, ceramics, wood and more. This range was designed for use with both standard size and fine liner nibs. PP170 permanent inks are ideal for professional display purposes and most art and craft applications. Regulatory information and compliance available on request.

\*component dependent

### ● Standard Colours (other shades available on request)

Ink Colour	Pantone References*	Typical Viscosity (20°C) (mPa.s)	Density (20°C) (g.cm <sup>-3</sup> )	Surface Tension (mNm/m)
● PP170 Black	N/A	4.0	0.96	27
● PP170 Dark Blue	2747 C	3.5	0.96	27
● PP170 Red	1935 C	3.5	0.96	27
● PP170 Green 64A	347 C	3.0	0.96	27
● PP170 Purple 58J	267 C	3.5	0.96	27
● PP170 Pink 34	233 C	3.5	0.96	27
● PP170 Cherry Red	186 C	3.0	0.96	27
● PP170 Scarlet	1795 C	3.0	0.96	27
● PP170 Orange	1665 C	3.5	0.96	27
● PP170 Golden Orange	144 C	4.0	0.96	27
● PP170 Yellow 58A	129 C	3.0	0.96	27
● PP170 Lemongrass	376 C	3.5	0.96	27
● PP170 Turquoise 58H	327 C	3.0	0.96	27
● PP170 Sky Blue	2995 C	3.0	0.96	27
● PP170 Aqua Blue	639 C	3.0	0.96	27
● PP170 Brown	7517 C	3.0	0.96	27
● PP170 Light Brown	723 C	3.5	0.96	27

\*Pantone references quoted are approximate to give an indication of colour shade

### ● Component Selection Advice

For optimum performance, markers should ideally be stored in the horizontal orientation and should be capped securely.

**Nib** - Polyester or acrylic (high porosity) around 65%, extruded POM

**Reservoir** - Polyester with polypropylene wrapping and a density of 0.18 g.cm<sup>-3</sup>

**Barrel** - Polypropylene (PP), polyethylene (PE) (not suitable for aluminium barrels)

**Head/tail caps** - Polypropylene (PP), polyethylene (PE), BS 7272-1:2008 compliant

Please test and approve our inks in your own components

### ● Shelf Life

The shelf life of PP170 series inks is 24 months from receipt when stored in the original sealed containers. It is recommended to store the inks between 10°C and 30°C.

Drums should be stored for at least 24 hours at room temperature (around 20°C) and then thoroughly agitated before to use.

**Caution:** Permanent inks are flammable liquids, so please handle accordingly. For more information, please refer to the Material Safety Data Sheet.

✉ For further information please email [lab@multichem.net](mailto:lab@multichem.net)

**Disclaimer:** It is your responsibility as the writing instrument manufacturer to establish the overall safety and fitness for purpose of the marker components incorporating our inks and to establish overall compliance to regulations and legislation related to the industry. All marker pen components should be thoroughly tested by you for compatibility with our inks. Multichem makes no guarantees (either express or implied) with respect to this technical data or our advice regarding component selection. Multichem will not accept any liability for any loss arising in connection with this technical data or the recommendations expressed within (other than that resulting from our gross negligence). Please contact your component suppliers for more specific advice regarding component suitability and selection. The information contained within this technical data sheet is not exhaustive and you should verify the performance of your final product.