

Intelligent Paper



Parking

KPW product range

- light- and heat-resistant
- very good wet rub stability
- good resistance under extreme climatic conditions



KPW products – intelligent solutions

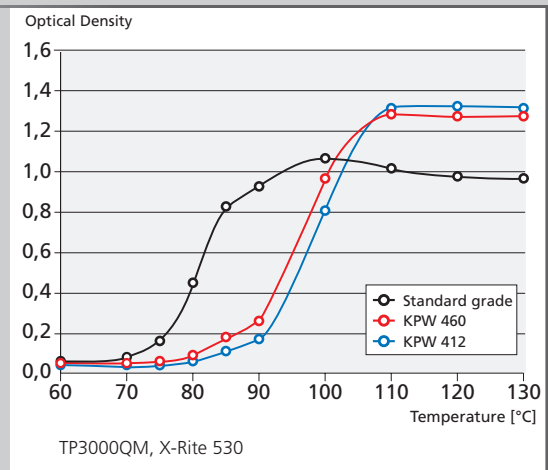
The KPW product series was specially developed by KANZAN for the production of car park tickets and other parking receipts. KPW products provide a black thermal image and have no topcoat. They were developed in response to the demand among many customers for a thermal surface with very good heat-stability which at the same time meets specific requirements in terms of resistance. It was particularly important that the typical critical influences of condensation and moisture should be eliminated or reduced.

With the development of the KPW coating, this demand has now been met in all respects. The product series features a significantly higher start temperature (approx. 90 °C) than that of conventional thermal papers. In addition to its heat-stability, it also has improved light-resistance, a longer printout lifetime under extreme climatic conditions and excellent wet rub stability. Increased reverse-side brightness serves to improve reverse-side printability.

Product range

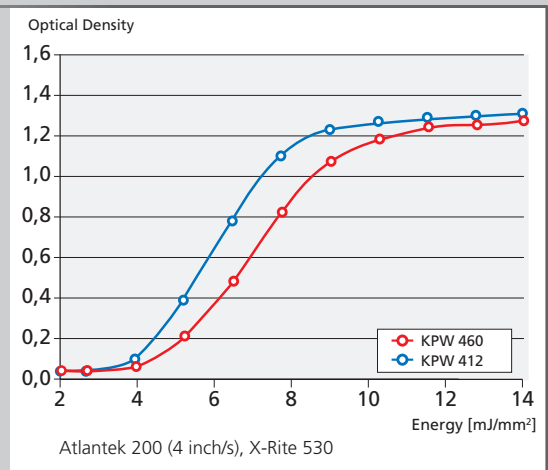
Grade	Grammage [g/m²]	Thickness [µm]
KPW 460	73	82
KPW 490	104	115
KPW 412	135	142
KPW 415	175	185
KPW 417	192	215
KPW 421	225	235
KPW 423	247	265

Static sensitivity



KPW 490, KPW 415, KPW 417, KPW 421 and KPW 423 are, in terms of static sensitivity, equivalent to KPW 412.





Dynamic sensitivity



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for all weathers

Resistance

KPW range	Water	Heat	Light	Alcohol	Oil or fat	Plasticizers
						
	+	++	+	O	O	O

Key: ++ very good resistance | + good resistance | O standard resistance.

Selection of recommended printing inks

SIEGWERK	Water-based Flexo Aqualabel HK (with cross-linker)
	UV-Flexo¹ SICURA Flex 39-8 SICURA Nutriflex 10
FLINT GROUP	Water-based Flexo Thermokett TC
	UV-Flexo¹ Flexocure FORCE Flexocure ANCORA
ZELLER+GMELIN	UV-Flexo¹ UVAFLEX Y71
HUBERGROUP	UV-Flexo¹ NewV flex UF 6000
DR. RODATZ NACHF.	Water-based Flexo Inkseries 4WT (with cross-linker 21010WT)

Printing method / further processing

Regarding further processing stages, there are no known restrictions in principle. Nevertheless, for the specific application we recommend and support a practical test.



¹ With UV-Flexo ink on Non-Topcoated materials, discolouration may occur. Appearing even weeks or months after printing. Here, we urgently recommend pretests. Complete drying, e. g. cross-linking of the ink, must be guaranteed in the printing process.

For further information on recommended printing inks please visit our homepage or contact us.

Recommendations and technical approvals

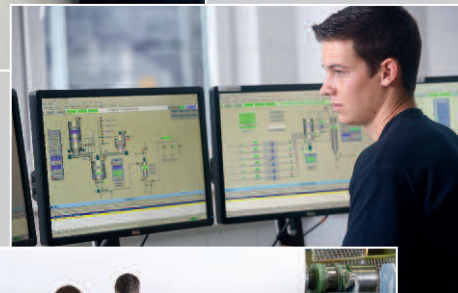
Due to their special features, KPW products were tested by various manufacturers of printing equipment. Heat-resistance and very good wet rub stability were particularly relevant here.

The positive test results have so far led to full technical approvals by the manufacturers:

- APS
- Cale
- GeBE
- Hectronic
- Hengstler
- IEM
- Parkeon
- Seiko Instruments
- Skidata
- WPS

In addition to the KPW grades listed here we of course also supply Topcoated grades for deployment in the "Parking" sector.

Feel free to contact us.



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KANZAN technical service

As competent market leaders we put our know-how to the service of our customers. We support them with solutions to problems, whether it is the selection of the right paper, advice on application-specific printing and processing or any other challenge.

We provide a wide range of information and experience: from thermal printers and thermal heads to printing inks and printing recommendations, from product analyses and comparisons to collaborative, customer-specific developments.

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