

Series 711

Fast drying Pad Printing Ink for Plastics

Highly opaque, fast drying and silky glossy pad printing ink, Series 711. Ideal for printing on various plastics and coatings.

Typical applications are promotional materials as well as technical applications in the industrial printing segment.

Application

- › Promotional materials
- › Industrial applications (automotive, electro)
- › Medical items (partially listed USP Medical Class VI)

Substrates

Substrate	Rating	Hints
ABS, SAN, copolymers	★★★★★	Addition of thinner, Series 10-0330
Rigid PVC	★★★★★	
Polystyrene (PS), mat	★★★★★	
Soft PVC	★★★★★	
Acrylic glass (casted PMMA)	★★★★★	
Coated surfaces / powder coatings	★★★★★	Addition of hardener, Series 700-HDA (10% by weight)
PET-A	★★★★★	
Polycarbonate (PC)	★★★★★	
Polystyrene (PS), injection-molded parts of acrylic glass	★★★★★	After pre-tests
Polystyrene (PS), glossy	★★★★★	
Polyester, non-pretreated	★	

Legend ★★★★★ Very well suited ★ Detailed pre-tests necessary

Characteristics

Feature	Rating	Hints
Alcohol- and gasoline resistance	★★★	Use of Series 700-HDA (10% by weight) to further improve resistance
Flexibility	★★★★★	
Gloss	★★★	Silky glossy
Resistance to hand sweat	★★★★★	Use of Series 700-HDA (10% by weight) to further improve resistance
Light fastness	★★★★★	
Abrasion resistance	★★★	Use of Series 700-HDA (10% by weight) to further improve resistance
Pigmentation	★★★★★	
Temperature resistance	★★★	
Drying	★★★★★	
Water resistance	★★★★★	
Weather resistance	★★★★★	

Legend ★★★★★ Very good product properties n/a No information available
 ★ Product properties not available

Product Range

MS Basic Colors

Article	Color	HP	HD		Article	Color	HP	HD		
711-1005	MS light yellow	•			711-3305	MS magenta	•			
711-1005/HD	MS light yellow	•	•		711-4005	MS violet	•			
711-1105	MS medium yellow	•			711-5005	MS blue	•			
711-1205	MS dark yellow	•			711-5005/HD	MS blue	•	•		
711-2005	MS orange	•			711-6005	MS green	•			
711-3005	MS red	•			711-6005/HD	MS green	•	•		
711-3005/HD	MS red	•	•		711-8005	MS black	•			
711-3105	MS magenta red	•			711-9005	MS white	•			

HP High pigmented **HD** High opaque

Note I: All abbreviations used in this chart are explained in detail on the last page of this data sheet.

Other Colors

ST Colors	ST Color Chart / www.printcolor.ch/stcolorguide	
ST Metallics	ST Color Chart / www.printcolor.ch/stcolorguide	
ST Neon Colors	ST Color Chart / www.printcolor.ch/stcolorguide	
Special Colors	Pantone [®] , HKS, RAL and after customers sample	
UV Luminescent Colors	Series 711-UL09/05	UV luminescent ink, yellow
	Series 711-UL16/05	UV luminescent ink, red
	Series 711-UL26/05	UV luminescent ink, blue
	Series 711-UL30/05	UV luminescent ink, green
Others	Series 711-00	ST white
	Series 711-00/HD	ST white, highly opaque
	Series 711-04	ST transparent paste
	Series 711-05	ST varnish
	Series 711-05/MT	ST varnish, mat
	Series 711-06	Retarder paste
	Series 711-33	ST black
	Series 711-33/B	ST black, intensive
	Series 711-8005/USP	Black, Medical Class VI
	Series 711-9005/USP	White, Medical Class VI

Auxiliaries

Thinner	Series 700-017	Addition ratio	15-30% by weight
Retarder*	Series 700-018	Addition ratio	5-20% by weight
Accelerator	Series 700-019	Addition ratio	15-30% by weight
Accelerator (fast)	Series 700-041	Addition ratio	15-30% by weight
Hardener (as needed)	Series 700-HDA	Addition ratio	10:1
	Series 700-HDI	Addition ratio	10:1

* Blended with Series 700-017.

Processing

Cliché

All commercially available clichés can be used.

Drying

Drying of Series 711 depends on the layer thickness as well as on the substrate and the auxiliaries used.

Usual parameters (no addition of retarder):

Air	Physically fast drying
Dryer	IR-dryer , continuous dryer, oven drying (max. 100°C)

Cleaning

Series 700-BRT, Series 700-URT

Special Features & Tips

Sensitive plastics	Use of a mild thinner, Series 310-017 (15-30% by weight) is recommended for stress crack-ing sensitive plastics (e.g. injection molded parts)
Adhesion problems	When experiencing adhesion problems, use of corrosive thinner, Series 10-0330 (15-30% by weight) is recommended to incipiently dissolve thermoplastic materials.
Resistance	Mechanical and chemical resistance can be improved by using hardeners Series 700-HDA and Series 700-HDI.

Others

Delivery	1 kg / 5 kg / 25 kg
Certificates / Standards	www.printcolor.ch/certificates
Other	Stir well before use
	Information on shelf life can be found on the cover label.

Basic Color Systems

HP Basic mixing system with highly pigmented primary colors

Safety Information

Actual Material Safety Data Sheets according to EC-Regulation 1907/2006 are available for all products mentioned in this data sheet.

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Important Information

Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, such claims shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence.