

LUX® ITP™

EPIC®



We are



**MacDermid**  
GRAPHICS SOLUTIONS





We are one of the world's most respected innovators of photopolymer plate products for the printing industry.





# Plates made in America for a global audience





MacDermid pioneered the world's first in-the-plate flat-top dot technology.



In 2010, MacDermid introduced LUX<sup>®</sup> technology, the award winning flat-top dot solution that shifted the flexo paradigm, elevating the quality of flexo.

## LUX® ITP™

MacDermid later leveraged its expertise in flat-top dots to develop LUX® In-The-Plate™ (ITP), an out-of-the-box flat-top dot solution that required no extra steps or equipment.



MacDermid continues to refine its LUX ITP™ portfolio with a plate that further streamlines your workflow. Why?

THE WORLD IS MOVING *FASTER*



Clients demand higher quality,

Clients demand higher quality,  
Shorter lead times,



Clients demand higher quality,  
Shorter lead times,  
**And print consistency.**



HOW DO WE ACHIEVE THIS?



LUX® ITP™

EPIC®



LUX ITP EPIC® is an innovative marriage of first-to-market technologies.



**1992**

MGS launches the  
first EPIC plate

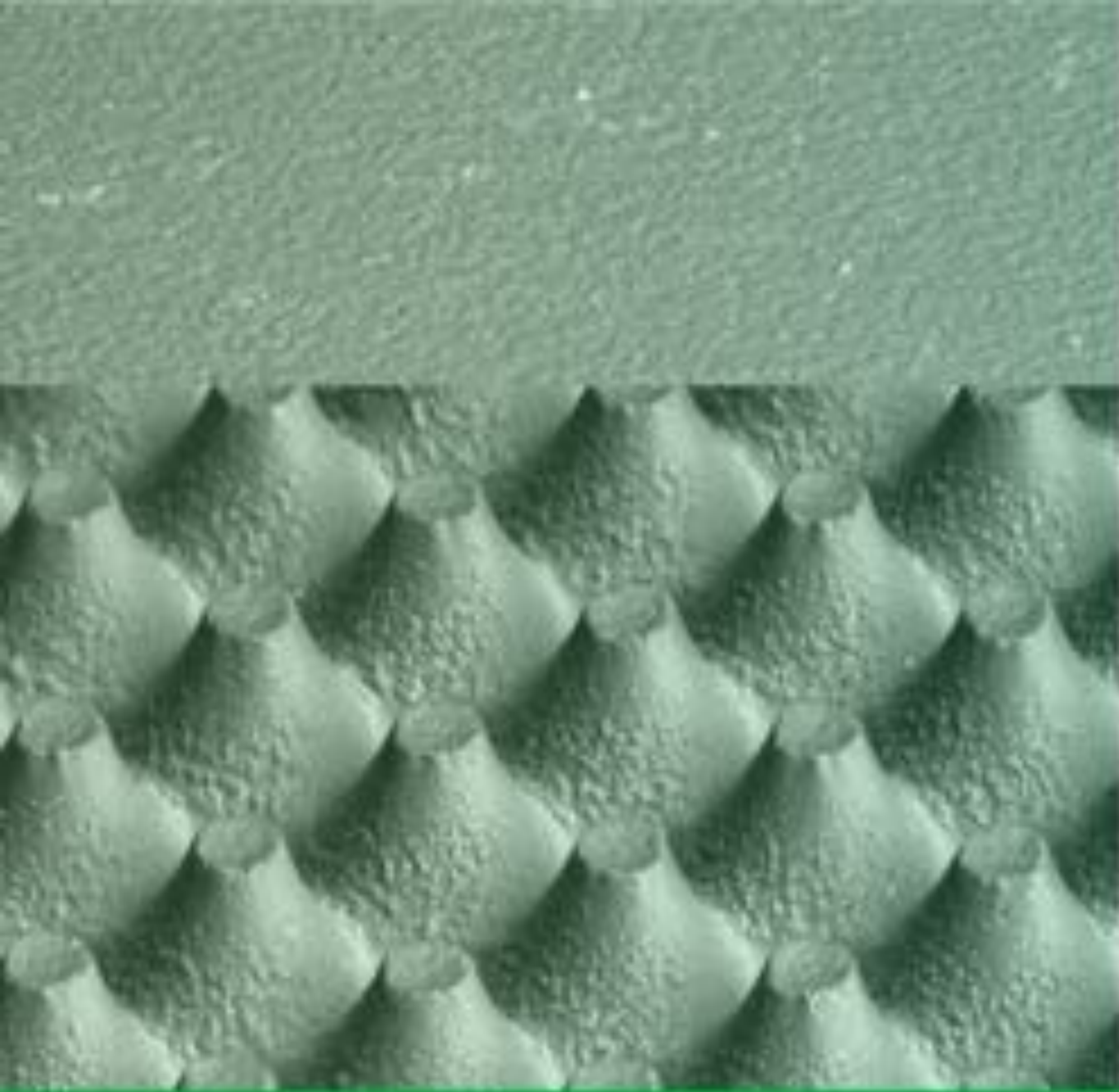
**2002**

MGS launches  
Digital EPIC,  
the first capped  
digital plate

**2018**

MGS launches  
LUX ITP EPIC





**CAPPED SURFACE  
+ LUX ITP =**

LUX® ITP™

**EPIC®**



# CAPPED PLATE

Eliminates the need for surface screening and  
improves ink transfer



# FLAT-TOP DOTS

Directly in-the-plate for increased platemaking productivity and consistent print reproduction



# CLEAN

Our unique capped surface plus patented Clean Plate Technology significantly reduces ink build up



# NEAR 1:1 IMAGING

Minimizing the need for a bump curve,  
significantly increasing the color gamut





# DURABLE

For improved long-run consistency



# LOW TACK

For speed and efficiency





# VERSATILE

Process with MacDermid LAVA<sup>®</sup> or  
conventional solvent wash systems



# COMPATIBILITY

Compatible with UV LED  
exposure units

So what does this  
mean for you?



**You can streamline your workflow  
to increase productivity**



## Digital Plate Workflow for Flat-Top Dots



## LUX<sup>®</sup> ITP<sup>™</sup> Workflow







LUX ITP EPIC  
eliminates the need for  
surface screening,  
resulting in smaller  
plate file sizes, and  
shorter rip times.



**You can deliver repeatable  
print performance**





Our unique micro-rough surface is manufactured right into the plate for consistent results time and time again.



**You can deliver more highlights  
and improve print quality**





LUX ITP EPIC offers near 1:1 mask-to-plate imaging capability, significantly reducing the bump curve, expanding color gamut, and enabling a smaller dot.



**You can rise to  
the challenge**






With LUX ITP EPIC's excellent ink transfer you can print challenging applications with confidence.





**You can achieve excellent  
ink transfer and coverage**





LUX ITP EPIC's ink transfer is equivalent to, or better than, other flat-top dot plates.



Solid Ink Density  
Wide Web Film

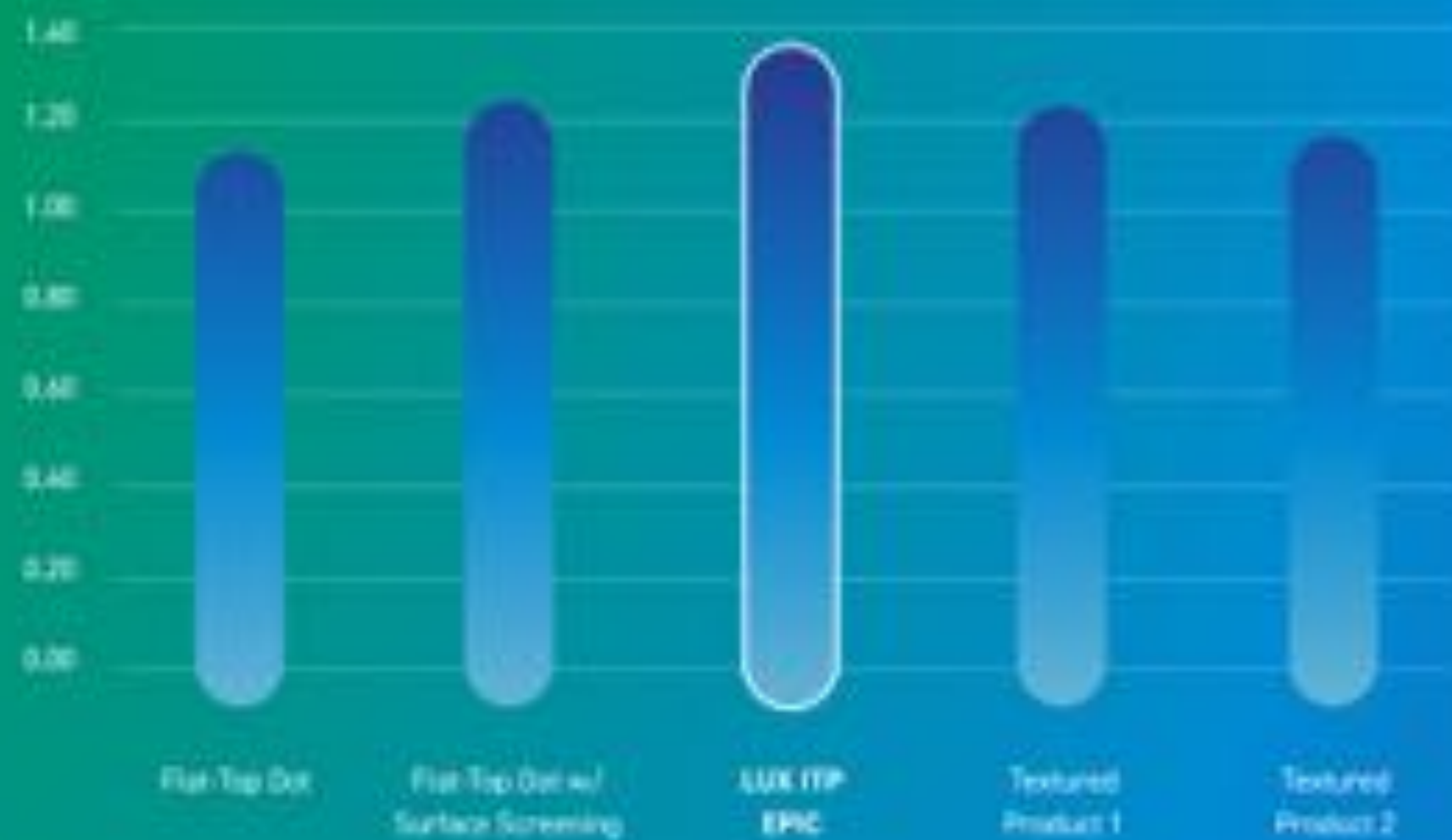


Plate	Solid Ink Density
Flat-Top Dot	1.13
Flat-Top Dot w/ Surface Screening	1.24
<b>LUX ITP EPIC</b>	<b>1.36</b>
Textured Product 1	1.23
Textured Product 2	1.17





LUX ITP EPIC's ink coverage is equivalent to, or better than, other flat-top dot plates.



## Ink Coverage & Mottle

### Wide Web Film

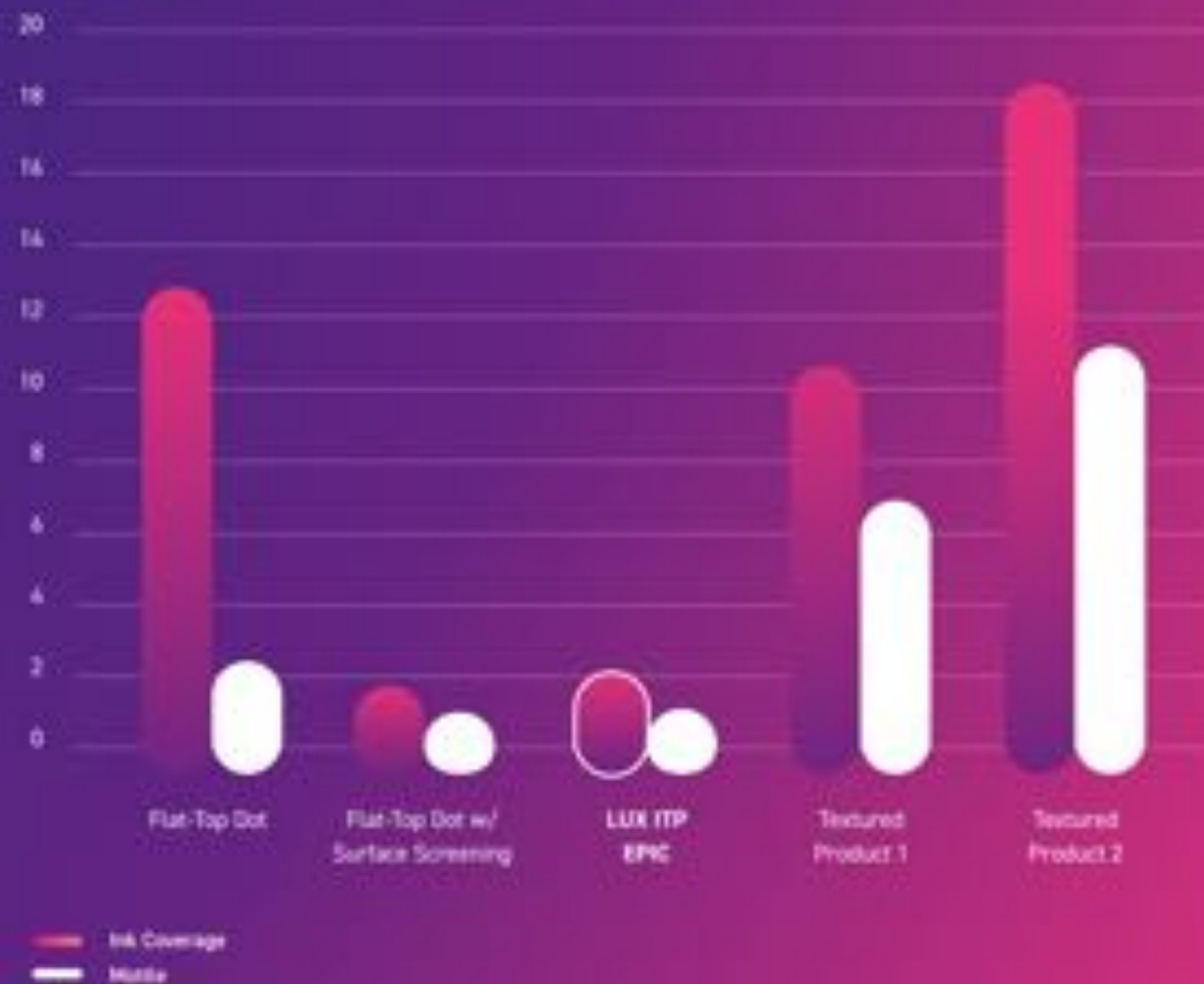


Plate	Ink Coverage	Mottle
Flat-Top Dot	12.8	2.42
Flat-Top Dot w/ Surface Screening	1.70	0.98
<b>LUX ITP EPIC</b>	<b>2.03</b>	<b>1.07</b>
Textured Product 1	10.53	6.81
Textured Product 2	18.29	11.07



Unrivalled Ink Coverage

Flat Top Dot

Flat Top Dot w/  
Surface Screening

LUX™ HP™  
EPO™

Textured  
Product 1

Textured  
Product 2



LUX® ITP™

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**EPIC®**



# Elevating Your Print to the Next Level

[graphics.macdermid.com](http://graphics.macdermid.com)