

PRODUCT PROFILES & BENCHMARKING

▶ LOCTITE 3D PRO410 HIGH ACCURACY

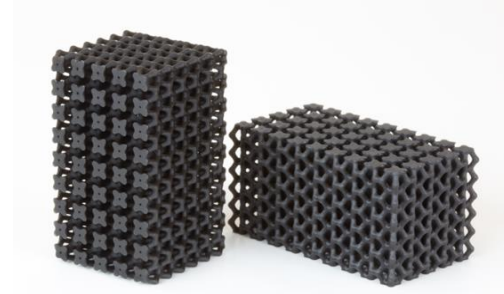
OUR FASTEST 3D PRINTING RESIN

Fast printing, rigid photopolymer that can be printed with very high-resolution has been formulated to provide high print accuracy and an exceptional surface finish.

48 MPa	1,900 MPa	5%	78 D
<i>Tensile Stress at Break</i>	<i>Young's Modulus</i>	<i>Elongation at Break</i>	<i>Shore Hardness</i>

Benefits:

- Safe to touch (ISO 10993 - 23 passed)
- Excellent surface finish
- 3X faster printing vs. other Henkel 3D printing resins
- Accurate prototypes



Ideal for:

- Printer setup and calibration
- Rapid prototypes
- Figurines, miniatures or board game models
- Home goods – low weight holding shelf brackets

▶ LOCTITE 3D PRO410 HIGH ACCURACY

		LOCTITE®	SLA			SLA, DLP	FFF		Reference IM
Property	Method	LOCTITE 3D PRO410 High Accuracy ¹	SLA Product #1	SLA Product #2	SLA Product #3	SLA, DLP Product #1	FFF Product #1	FFF Product #2	ABS
Color	-	Black	White	Grey	Black	Clear	Clear, Amber, Red	White	-
Tensile Strength	ASTM D638	48 MPa	66.8 MPa	52 MPa	63 MPa	52 MPa	37 MPa	28.1 MPa	44 MPa
Elongation at Break	ASTM D638	5.46%	9%	4%	12%	5.7%	4.4%	8.10%	24%
Tensile Young's Modulus	ASTM D638	1937 MPa	2960 MPa	2300 MPa	2320 MPa	2050 MPa	1920 MPa	2400 MPa	-
Flexural Modulus	ASTM D790	2499 MPa	2340 MPa	2300 MPa	2290 MPa	-	1920 MPa	1300 MPa	2250 MPa
Notched Impact IZOD	ASTM D256	24	0.18 J/m	26 J/m	24 J/m	232 J/m ³	96.4 J/m	140 J/m	175 J/m
HDT @ 0.455 MPa	ASTM D256	71°C	98°C	74°C	70°C	45°C ⁴	86°C	103.8°C	88.7
Shore D Hardness	ASTM D2240	78	87	87	79	-	R108 ²	-	R110 ¹

¹ LED 405nm Post-Processing

² ASTM D785.

³ ISO 179.

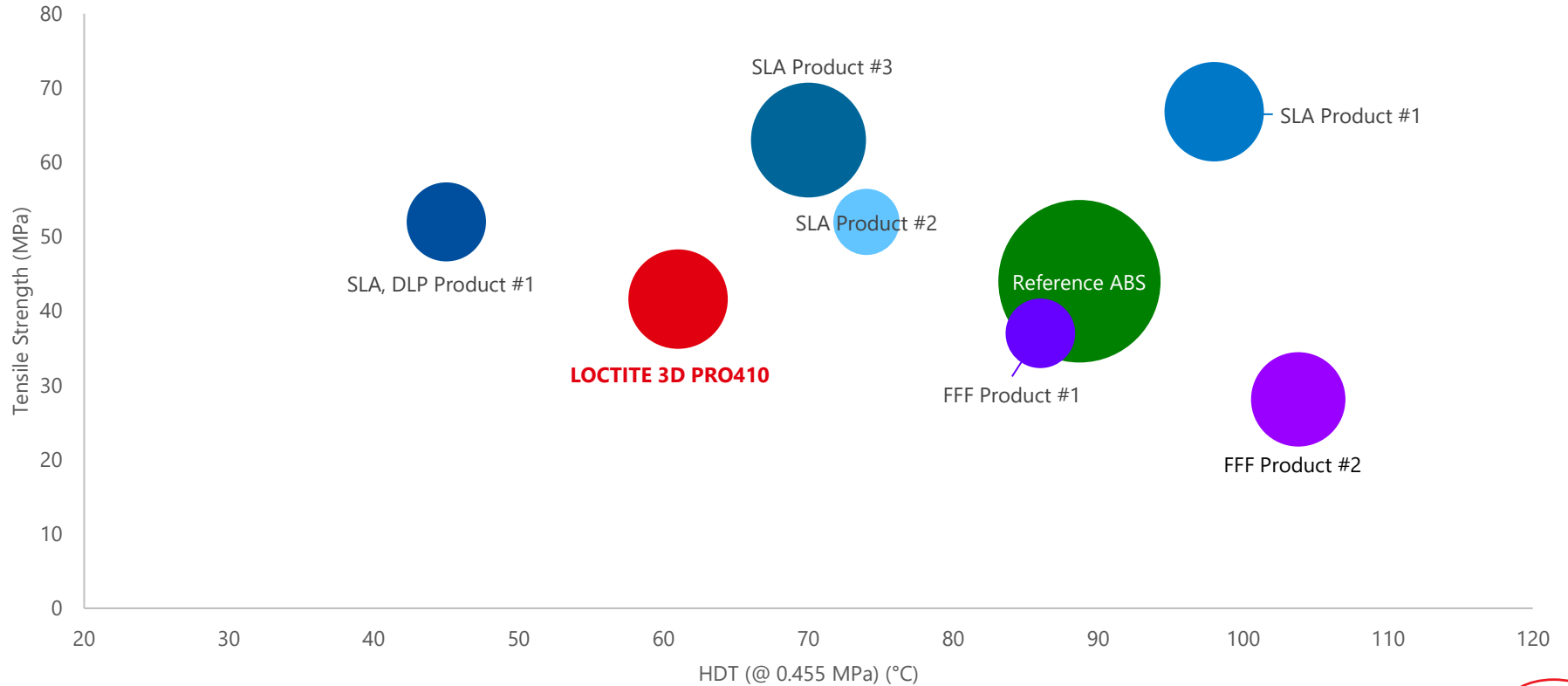
⁴ ISO 75.

▶ LOCTITE 3D PRO410

		LOCTITE®	DLP/LCD					FDM
Property	Method	LOCTITE 3D PRO410 High Accuracy ¹	DLP/LCD Product #1	DLP/LCD Product #2	DLP/LCD Product #3	DLP/LCD Product #4	DLP/LCD Product #5	FDM Product #1
Color	-	Black	Beige	Cream, Grey	Various	Various	Various	Various
Tensile Strength	ASTM D638	43 MPa	40 MPa	26 MPa	64-72 MPa	56.5 MPa	36-53 MPa	45 MPa
Elongation at Break	ASTM D638	5.46%	50-60%	10%	8-13%	32%	14.2%	2.5%
Tensile Young's Modulus	ASTM D638	1665 MPa	192 MPa	700 MPa	1.8-2.8 MPa	-	-	2300 Mpa
Flexural Modulus	ASTM D790	2198 MPa	-	-	1.8-2.3 MPa	-	-	-
Notched Impact IZOD	ASTM D256	25 J/m	-	-	14-20 J/m	28 J/m	-	9 J/m
HDT @ 0.455 MPa	ASTM D256	61°C	100°C	-	-	-	-	100°C
Shore D Hardness	ASTM D2240	78	65	65	79-88	78-82	84	-

▶ LOCTITE 3D PRO410 HIGH ACCURACY

DLP	
SLA, DLP	
SLA	
FFF	
Reference IM	



*Bubble size represents % Elongation.

▶ LOCTITE 3D PRO476 HDT60 HIGH TOUGHNESS FOR LCD

HIGH IMPACT, SEMI-FLEXIBLE RESIN

A high Strength Tough Polymer with good surface finish designed to work on **LCD Printers**. Comparable to ABS.

47 MPa

*Tensile
Stress
at Break*

1,685 MPa

*Young's
Modulus*

55%

*Elongation
at Break*

44 J/m

*Impact
Strength*

60 °C

*HDT at
0.455MPa*

Benefits:

- Tough with outstanding surface finish
- High impact resistance



Tube Prototypes

Ideal for:

- Consumer goods parts
- Housings
- Textured and high detailed parts
- Performance Prototypes

Technical Data Sheet > **Black**

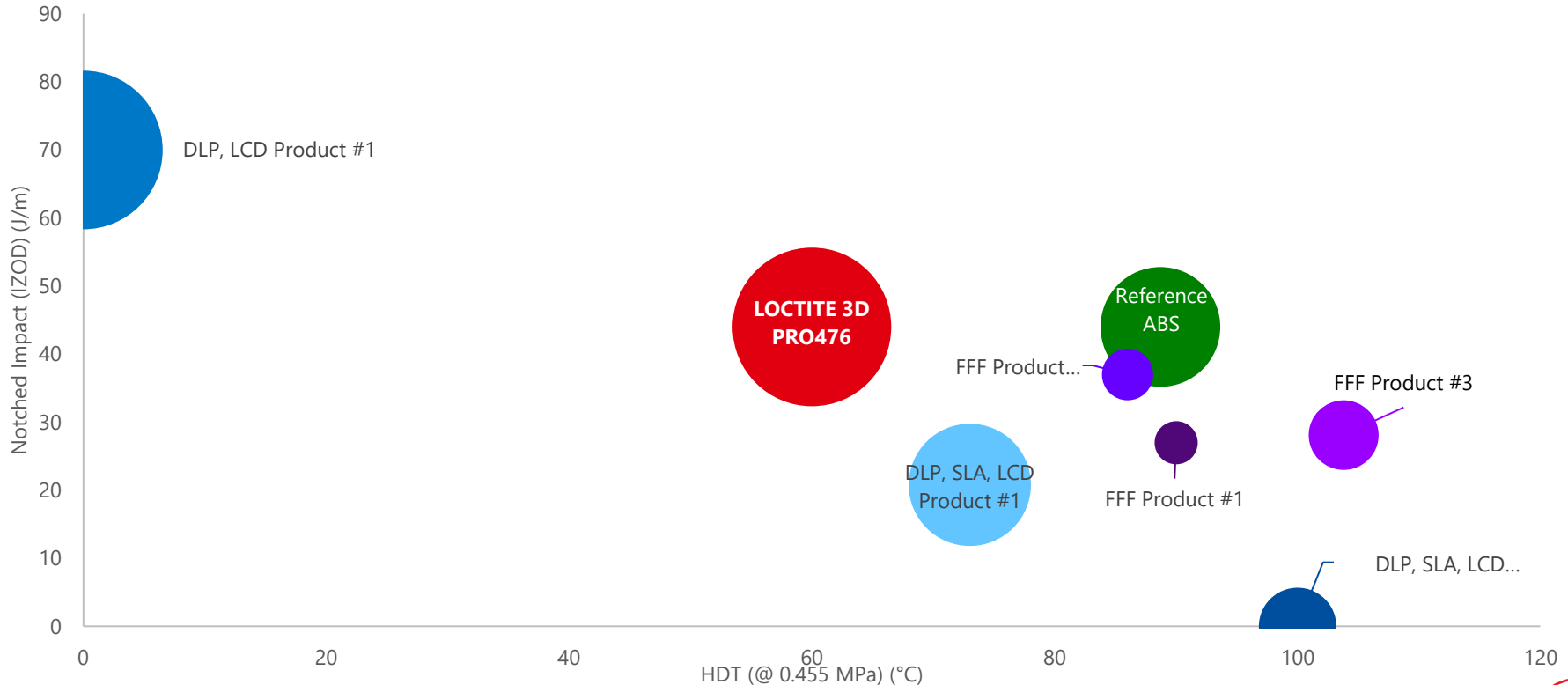
▶ LOCTITE 3D PRO476 HDT60 HIGH TOUGHNESS FOR LCD

		LOCTITE®	DLP, LCD	DLP, SLA, LCD		FFF			Reference IM
Property	Method	LOCTITE 3D PRO476 HDT60 High Toughness for LCD	DLP, LCD Product #1	DLP, SLA, LCD Product #1	DLP, SLA, LCD Product #2	FFF Product #1	FFF Product #2	FFF Product #3	ABS
Color	-	Black	Clear	Clear, Black	Clear, Black, Blue, Magenta, Yellow	Black	Clear, Amber, Red	White	-
Tensile Strength	ASTM D638	47.7 MPa	20.4 MPa	62 MPa	>40 MPa	40 MPa	37 MPa	28.1 MPa	44 MPa
Elongation at Break	ASTM D638	55.1%	42%	25%	<10%	3.1%	4.4%	8.10%	24%
Tensile Young's Modulus	ASTM D638	1685.8 MPa	465 MPa	2300 MPa	2000 MPa	1460 MPa	1920 MPa	2400 MPa	-
Flexural Modulus	ASTM D790	1946 MPa	408 MPa	2430 MPa	2000 MPa	45 MPa	1920 MPa	1300 MPa	2250 MPa
Notched Impact IZOD	ASTM D256	44 J/m	70 J/m	20.8 J/m	-	27 J/m	96.4 J/m	140 J/m	175 J/m
HDT @ 0.455 MPa	ASTM D256	60°C	-	73°C	<100°C	90°C	86°C	103.8°C	88.7
Shore D Hardness	ASTM D2240	72	-	81	80	-	R108 ¹	-	R110 ¹

¹ ASTM D785.

▶ LOCTITE 3D PRO476 HDT60 HIGH TOUGHNESS FOR LCD

DLP, LCD			
SLA, DLP, LCD			
FFF			
Reference IM			



*Bubble size represents % Elongation.

*Competitors on the axes need information that was unavailable.

THANK YOU

