

Innovating Additive Manufacturing



At Forward AM, we accompany you from first idea to final printed part. Our portfolio includes materials for all major Additive Manufacturing technologies - from powders to plastic and metal filaments to photopolymers.

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PHOTOPOLYMERS

Discover the wide range of
Ultracur3D® reactive urethane
photopolymers delivering classleading performance and consistency
to meet your specific application
needs.

Mechanical Properties Comparison

		Tougl	ı Line			Rigid Line			Dental Line			
	ST 45	ST 80	ST 1400	ST 7500 G	RG 35	RG 1100	RG 3280	DM 2505	DM 2304	DMD 1005		
E Modulus [MPa] ASTM D638	2300	1500	1900	2300	2600	3080	10 000	2200	-	2710		
Tensile Strength [MPa] ASTM D638	60	35	45	54	80	70	70	48	4 (1)	60		
Elongation at Break [%] ASTM D638	25	20	43	13	6	5	0.7	4	160	4		
Flexural Modulus [MPa] ASTM D790	2400	1700	1540	2150	2400	2880	8780	2150	-	2400		
Flexural Strength [MPa] ASTM D790	110	60	80	95	110	119	73	83	-	85		
Impact Strength Izod Notched [J/m] ASTM D256	30	24	43	25	23	16	2.36	-	-	-		
Hardness ASTM D2240	80 D	80 D	78 D	82 D	85 D	85 D	96 D	73 D	50 A	80 D		
HDT (0.45 Mpa) [°C] ASTM D648	73	46	57	64	83	116	> 280	-	-	93		
HDT (1.85 Mpa) [°C] ASTM D648	61	42	48.7	54	64	84	132	-	-	73		
Flammability UL 94 1.5 mm	HB	-	-	-	HB	HB		-	-	-		
Viscosity - 30 °C [mPas] Cone/Plate Rheometer	210	400	280	130	600	201	230	80	160	110		
Tear Strength - Graves) [N/mm] ASTM D624 type C	-	-	-	-	-	-	-	-	-	-		
Rebound Resilience [%] ASTM D1054	-	-	-	-	-	_	-	-	-	-		

	Flexible / Elastomeric Line					Engineerin	g Plastic Da	aylight Line	
FL 300	FL 60	EL 60	EL 150	EL 4000	EPD 1006	EPD 1086	EPD 2006	EPD 3500	EPD 4006
-	-	-	-	-	1500	1810	2370	2500	1800
5 (1)	4 (1)	9 (1)	7 (1)	11 ⁽¹⁾	40	42	50	60	45
250	90	95	182	172	25	26	10	18	45
-	-	-	-	-	1460	1620	2210	2400	1600
-	-	-	-	-	52	67	90	110	70
-	-	-	-	-	35	28	11	25	46
40 A	60 A	75 A	80 A	90 A	79 D	81 D	80 D	79 D	78 D
-	-	-	-	-	44	53	81	70	54
-	-	-	-	-	40	46	61	57	43
-	-	-	-	-	НВ	HB	HB	-	HB ⁽³⁾
160	400	3400	90	350	1033	450	310	600	300
9	9	18	14	37	-	_	-	-	-
16	11 ⁽²⁾	21 ⁽²⁾	28	30 ⁽²⁾	-	-	-	-	-

Tests & Certification Summary

■ Test Completed

		Tough	n Line		F	Rigid Lin	е	D	ental Li	ne	F	lexible /	Elaston	neric Lin	ie	Engi	neering	Plastic I	Daylight	Line
	ST 45	ST 80	ST 1400	ST 7500 G	RG 35	RG 1100	RG 3280	DM 2505	DM 2304	DMD 1005	FL 300	FL 60	EL 60	EL 150	EL 4000	EPD 1006	EPD 1086	EPD 2006	EPD 3500	EPD 4006
Temperature Resistance	**	*	*	**	**	***	***	**		**						*	*	**	**	*
Water Absorption	*	***	***	***	***	***	***	**	**	***	**	**	***	*	*	***	***	***	***	***
Chemical Resistance	**	***			***	***							**	**	**		***	***	**	**
UV Resistance	**	***	**		**	**						***		**	***		**	**	**	**
Flammability					•															
Biocompatibility	•				•						•			•		•				
Sterilization	•				•															

Printer Compatibility

	by Forward AM				To	ugh Li	ne					R	igid Lir	ne		Denta	al Line		Flexibl	e / Ela	stomer	ic Line	•
■ Validated b manufacturer □ □ Prelimin		ST 45	ST 45 M	ST 45 B	ST 80	ST 80 B	ST 80 G	ST 80 W	ST 1400	ST 7500 G	RG 35	RG 35 B	RG 1100	RG 1100 B	RG 3280	DM 2505	DM 2304	FL 300	FL 60	EL 60	EL 150	EL 4000	EL 4000 B
Asiga®	MAX X27, MAX X35, MAX X43 MAX UV, PRO 4K 45, PRO 4K 65, PRO 4K 80										•					•		•					
	DLP STATION 5, DLP STATION EXZ (405 nm)	•																•					
atum3D®	DLP STATION 5 EXZ* (365 nm)	•									•							•					
	LD-002R																						
Creality3D®	Halot One CL-60																						
	Halot Sky-CL-89																						
	Mars 2																						
ELEGOO®	Mars 2 Pro																						
Genera®	G2, G3																						
	Ultra 125 Y (385 nm)	•					-				•					•		•					
MiiCraft	Ultra 125 Y (405 nm)	•														•							
	Prime 150 (405nm)	•																					

_ > / !!	-																						
Validated bValidated b			,	,	To	ugh Li	ne	,				R	igid Liı	ne		Denta	al Line		Flexibl	e / Ela	stome	ric Line	
manufacturer Prelimina	ary	ST 45	ST 45 M	ST 45 B	ST 80	ST 80 B	ST 80 G	ST 80 W	ST 1400	ST 7500 G	RG 35	RG 35 B	RG 1100	RG 1100 B	RG 3280	DM 2505	DM 2304	FL 300	FL 60	EL 60	EL 150	EL 4000	EL 4000 B
	NXE 200 , NXE 400	•									•					•							
Nexa3D®	XIP	•																					
Photocentric®	LC Opus										•					•						-	
	Mini 4K	•														•							
Phrozen®	Mighty 4K	•														•							
Phrozen®	Sonic XL 4K															•							
	Mini 8K, Mighty 8K, Mega 8K, Sonic 2022, Sonic 2022 XL	•														•							
Prusa®	Original Prusa SL1	•					•				•												
Frusaw	Original Prusa SL1S		□		□	□																	
RapidShape®	i30+	•																					
паріозпарев	i50+	•																					
Shining 3D®	AccuFab-L4K	•			-	•	-	•			•								•			•	
Stratasys®	Origin® One	•			•													•				•	
UnionTech®	Cute 300	0			□				□										•		•		
CHOITECHE	Pi 200																						
Zortrax®	Inkspire 2				-		-				•											•	



Rigid Line

Technology:

LCD (incl. MSLA) & DLP

Color:

Clear & Black



Very high stiffness & high temperature resistance



High accuracy and low shrinkage



Low water uptake



Easy to polish

Suited for:







Automotive housings

Jigs and fixtures

Molds and inserts



Electrical castings

Access all resources by scanning the



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Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	2600	
Tensile Strength (MPa)	ASTM D638	80	
Heat Deflection Temperature (°C)	ASTM D648	83	
Hardness (Shore D)	ASTM D2240	85	



Complete TDS

Tests & Certifications

Flammability	Skin Contact	UV Stability	Sterilization	Chemical Resistance
UL 94 1.5mm	ISO 10993-5; ISO 10993-10; ISO 10993-11	ISO 4892-2A Oycle 1	Dataset available	Dataset available

Complementary Products

Cleaning solution

for removal of

any uncured

photopolymer

parts

resin from printed

Ultracur3D® Cleaner

Ultracur3D® Color Kit



Ultracur3D® Coat F+



Flexible coating solution to improve part properties and appearance



Rigid Line

Technology:

LCD (incl. MSLA) & DLP

Color:

Clear & Black



Very high stiffness



Impressive all-round temperature resistance



Very high chemical resistance and low water uptake

Suited for:







Automotive connectors

Engineering parts

Brackets and housings

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	3080	
Tensile Strength (MPa)	ASTM D638	70	
Heat Deflection Temperature (°C)	ASTM D648	116	
Water Absorption, 24h (%)	ASTM D570	0.32	



Complete TDS

Tests & Certifications

Flammability	UV Stability	Sterilization	Chemical Resistance
UL 94 1.5 mm	ISO 4892-2A Cycle 1	Dataset available	Dataset available

Complementary Products

Ultracur3D® Cleaner

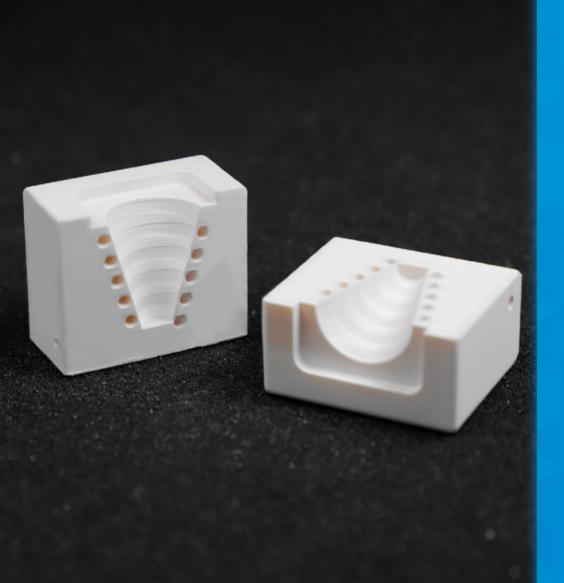
Ultracur3D® Color Kit



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Color kit solution enabling parts in a wide range of colors without the need for post-processing



Rigid Line

Technology:

CD (incl. MSLA) & DLP

Color:

White ceramic-like



Superior stiffness



Superior temperature performance



Fast and easy to print



High suspension stability

Suited for:







Tooling

Molding

Wind tunnel testing

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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	10 000
Tensile Strength (MPa)	ASTM D638	76
Heat Deflection Temperature (°C)	ASTM D648	>280
Viscosity, 30°C (mPas)	Cone/Plate Rheometer	230



Complete TDS

Tests & Certifications

Chemical Resistance

Dataset available



Tough Line

Technology:

CD (incl. MSLA) & DLP

Color:

lear & Black



High strength, toughness and impact resistance



Very fast printing and great surface finishing



Lower curing depth for higher z-resolution (for ST 45 M)

Suited for:







Prototyping



High detail & textured parts



Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	2300
Tensile Strength (MPa)	ASTM D638	60
Heat Deflection Temperature (°C)	ASTM D648	73
Hardness (Shore D)	ASTM D2240	80



Complete TDS

Tests & Certifications

Flammability	Skin Contact	UV Stability	Sterilization	Chemical Resistance
UL 94 1.5 mm	ISO 10993-5;	ISO 4892-2B Cycle 1	Dataset available	Dataset available

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit

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Ultracur3D® Coat F+



Cleaning solution for removal of any uncured photopolymer resin from printed parts

Color kit solution enabling parts in a wide range of colors without the need for post-processing Flexible coating solution to improve part properties and appearance



Tough Line

Technology:

_CD (incl. MSLA) & DLP

Color:

Clear, Black, White, & Grey



Well-balanced multi-purpose material



High toughness and impact resistance



Most costeffective solution



UV stability

Suited for:







Electrical castings

Orthopedics

High detail & textured parts



Consumer goods and tools

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	1500
Impact Strength, Notched Izod, 23°C (J/n	n) ASTM D256	24
Elongation at Break (%)	ASTM D638	20
Hardness (Shore D)	ASTM D2240	80



Complete TDS

Tests & Certifications

Skin Contact	UV Stability	Sterilization	Chemical Resistance
ISO 10993-5; ISO		Dataset available	Dataset e vileble
10993-10	ISO 4892-2A Oycle 1	Dataset available	Dataset available

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Color kit solution enabling parts in a wide range of colors without the need for post-processing



Tough Line

Technology:

CD (incl. MSLA) & DLP

Color:

Clear



Outstanding toughness and impact resistance



Bridge between flexible and rigid materials



Low viscosity and fast printing

Suited for:







Housings

Prototyping

Orthopedics



Medical applications

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value	
Water absorption (%)	ASTM D570	0.33	
Impact Strength, Notched Izod, 23°C (J/m)	ASTM D256	43	
Elongation at Break (%)	ASTM D638	43	
Youngs modulus (MPa)	ASTM D638	1900	



Complete TDS

Tests & Certifications

Skin Contact	UV Stability	Sterilization
ISO 10993-10	ISO 4892-2A Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Color kit solution enabling parts in a wide range of colors without the need for post-processing



Ultracur3D® ST 7500 G

Tough Line

Technology:

LCD (incl. MSLA) & DLP

Color:

Grev



Surface quality and details



Durability and toughness



Fast and easy printing

Ultracur3D® ST 7500 G

Suited for:







Functional Prototypes

Access all resources by scanning the OR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	2300
Elongation at Break (%)	ASTM D638	13
Water Absorption, 24h (%)	ASTM D570	0.9
Viscosity, 30°C (mPas)	Cone/Plate Rheometer	130



Complete TDS

Tests & Certifications

UV Stability	Skin Contact	Chemical Resistance
ISO 4892-2A Cycle 1	ISO 10993-5	Dataset available

Complementary Products

Ultracur3D® Cleaner





Texible / Flastomeric Line

Technology:

CD (incl. MSLA) & DLP

Color:

lear



Very low hardness (Shore 40 A)



Superior elongation at break

Suited for:



Footwear





Energy damping





Cushioning Flexible grips pads

Access all resources by scanning the OR code



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Technical Specifications

Mechanical properties	Standard	Value	
Rebound Resilience (%)	ASTM D1054	16	
Tear Strength, Graves (N/mm)	ASTM D624 type C	9	
Elongation at Break (%)	ASTM D412 C	245	
Hardness (Shore A)	ASTM D2240	40	



Complete TDS

Tests & Certifications

Skin Contact	Chemical Resistance		
	.		
ISO 10993-10	Dataset available		

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit

F s ir

Ultracur3D® Coat F+





Flexible coating solution to improve part properties and appearance



Texible / Flastomeric Line

Technology:

LCD (incl_MSLA) & DLP

Color:

Moor



Very low hardness (Shore 60 A)



Very good haptics



Very stable clear-white color

Suited for:







Footwear

Functional prototyping

Flexible grips



Cushioning pads

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Rebound Resilience (%)	ASTM D7121	11
Tear Strength, Graves (N/mm)	ASTM D624 type C	9
Elongation at Break (%)	ASTM D412 C	90
Hardness (Shore A)	ASTM D2240	60



Complete TDS

Tests & Certifications

Sterilization	UV Stability
	·····
Dataset available	ISO 4892-2A Cycle 1

Complementary Products

Cleaning solution

for removal of

any uncured

photopolymer

parts

resin from printed

Ultracur3D® Cleaner

Ultracur3D® Color Kit

Ultracur3D® Coat F+

Color kit solution enabling parts in a wide range of colors without the need for post-processing

Flexible coating solution to improve part properties and appearance



Texible / Flastomeric Line

Technology:

CD (incl. MSLA) & DLP

Color:

lear



Low hardness (Shore 75 A)



Quick elastic response



Easy to print

Suited for:







Footwear

Functional prototyping

Flexible grips



Cushioning pads

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value	
Rebound Resilience (%)	ASTM D7121	21	
Elongation at Break (%)	ASTM D412 C	95	
Water Absorption, 24h (%)	ASTM D570	0.60	
Hardness (Shore A)	ASTM D2240	75	



Complete TDS

Tests & Certifications

Sterilization	Skin Contact	Rossflex	Chemical Resistance
Dataset available	ISO 10993-5; 10993-10	ASTM D1052	Dataset available

Complementary Products

for removal of

any uncured

photopolymer

parts

resin from printed

Ultracur3D® Cleaner

uner Ultracur3D® Color Kit Cleaning solution Color kit

Ultracur3D® Coat F+

Color kit solution enabling parts in a wide range of colors without the need for post-processing

Flexible coating solution to improve part properties and appearance



Texible / Flastomeric Line

Technology:

Color:

LCD (incl. MSLA) & DL

llogr



Medium Hardness (Shore 75 A)



Optimum combination of high strength, elongation at break and rebound

Suited for:







Footwear

Prototyping

Flexible grips



Cushioning pads

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Rebound Resilience (%)	ASTM D1054	28
Tear Strength, Graves (N/mm)	ASTM D624 type C	14
Elongation at Break (%)	ASTM D412 C	182
Hardness (Shore A)	ASTM D2240	80



Complete TDS

Tests & Certifications

Rosflex	Skin Contact	UV Stability	Chemical Resistance
ASTM D1052	ISO 10993-10	ISO 4892-2A Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit

Ultracur3D® Coat F+



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Color kit solution enabling parts in a wide range of colors without the need for post-processing



Flexible coating solution to improve part properties and appearance



Flexible / Elastomeric Line

Technology:

CD (incl. MSLA) & DLP

Color:

Clear & Black



High hardness (Shore 90 A)



Ideal for printing intricate flexible parts



Superior strength, rebound and tear resistance

Suited for:







Footwear

Bike saddle

Cushioning pads

Access all resources by scanning the OR code



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Technical Specifications

Mechanical properties	Standard	Value
Elongation at Break (%)	ASTM D412 C	172
Hardness (Shore A)	ASTM D2240	90
Rebound Resilience (%)	ASTM D7121	30
Tear Strength, Graves (N/mm)	ASTM D624 type C	37



Complete TDS

Tests & Certifications

UV Stability	Chemical Resistance	Skin Contact
ISO 4892-2A Cycle 1	Dataset available	ISO 10993-5

Complementary Products

Ultracur3D® Cleaner

Ultracur3D® Color Kit



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Color kit solution enabling parts in a wide range of colors without the need for post-processing



Dental Line

Technology:

Color:

LCD (incl. MSLA) & DLP

Beige



Precise manufacturing of dental models

and molds



Ideal for thermoforming



Parts can be washed with water

Suited for:



Dental models and molds

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	2200	
Tensile Strength (MPa)	ASTM D638	48	
Viscosity, 30°C (mPas)	Cone/Plate Rheometer	80	
Hardness (Shore D)	ASTM D2240	73	



Complete TDS

Tests & Certifications

Accuracy

High printing and thermoforming accuracy

Complementary Products

Ultracur3D® Cleaner





Dental Line

Technology:

Color:

LCD (incl. MSLA) & DLP

Diple



Optimized for producing gingiva masks



Highly flexible and very soft

Suited for:



Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Elongation at Break (%)	ASTM D412 C	160
Tensile Strength (MPa)	ASTM D412 C	4
Viscosity, 30°C (mPas)	Cone/Plate Rheometer	160
Hardness (Shore A)	ASTM D2240	50



Complete TDS

Tests & Certifications

Accuracy

High printing and thermoforming accuracy

Complementary Products

Ultracur3D® Cleaner



Cleaning solution for removal of any uncured photopolymer resin from printed parts



Ultracur3D® DMD 1005

Dental Line

Technology:

Color:

LCD Phot ocentric

Reide



Ideal for economic and large-scale production



Suitable for thermoforming



Good printing accuracy

Ultracur3D® DMD 1005

Suited for:



Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	2710	
Tensile Strength (MPa)	ASTM D638	60	
Heat Deflection Temperature (°C)	ASTM D648	93	
Hardness (Shore D)	ASTM D2240	80	



Complete TDS

Tests & Certifications

Accuracy

High printing and thermoforming accuracy

Complementary Products

Ultracur3D® Cleaner





Daylight Line

Technology:

Color:

LCD Phot ocentric

Rlack





Good toughness and impact resistance





Ideal for prototyping, jigs and fixtures

Suited for:







Prototyping

Jigs and fixtures

Customized gadgets and tools



High detail and textured parts

> Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	1500
Tensile Strength (MPa)	ASTM D638	40
Elongation at Break (%)	ASTM D638	25
Impact Strength, Notched Izod, 23°C (J/m)	ASTM D256	35



Complete TDS

Tests & Certifications

Flammability	Skin Contact
UL 94 1.5 mm	ISO 10993-5

Complementary Products

Ultracur3D® Cleaner





Daylight Line

Technology:

LCD Phot ocentric

Color:

Black



Well-balanced mechanical properties



Cost-effective solution for a wide range of applications

Suited for:







Customized gadgets and tools

Access all resources by scanning the OR code



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Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	1810	
Tensile Strength (MPa)	ASTM D638	42	
Elongation at Break (%)	ASTM D638	26	
Hardness (Shore D)	ASTM D2240	81	



Complete TDS

Tests & Certifications

Flammability	UV Stability	Chemical Resistance
UL 94 1.5 mm	ISO 4892-2 Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner





Daylight Line

Technology:

Color:

LCD Phot ocentric

Black



Very high stiffness and temperature resistance



Ideal for largescale objects



Printed parts exhibit intricate detail

Suited for:







Customized gadgets and tools

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	2370
Tensile Strength (MPa)	ASTM D638	50
Elongation at Break (%)	ASTM D638	10.3
Heat Deflection Temperature (°C)	ASTM D648	81



Complete TDS

Tests & Certifications

Flammability	Skin Contact	UV Stability	Chemical Resistance
UL 94 1.5 mm	ISO 10993-5;	ISO 4892-2A Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner





Daylight Line

Technology:

Color:

LCD Phot ocentric

4mbei

H

High strength, high stiffness & good impact resistance



Ideal for engineering prototypes

Low water uptake

Suited for:







Customized gadgets and tools

Access all resources by scanning the QR code



This information and values are presented as guidance only and based on Forward AM's knowledge and experience. It is believed to be accurate, however all guarantees are explicitly denied. This document was updated February 2023.

Technical Specifications

Mechanical properties	Standard	Value	
Young's Modulus (MPa)	ASTM D638	2500	
Tensile Strength (MPa)	ASTM D638	60	
Elongation at Break (%)	ASTM D638	18	
Impact Strength, Notched Izod, 23°C (J/m)	ASTM D256	25	



Complete TDS

Tests & Certifications

UV Stability	Chemical Resistance
ISO 4892-2A Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner





Daylight Line

Technology:

Color:

LCD Phot ocentric

Black



Extremely tough & durable material



Superior impact resistance



Easy to print and smooth surface finish

Suited for:







Customized gadgets and tools

Access all resources by scanning the QR code



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Technical Specifications

Mechanical properties	Standard	Value
Young's Modulus (MPa)	ASTM D638	1800
Tensile Strength (MPa)	ASTM D638	45
Elongation at Break (%)	ASTM D638	45
Impact Strength, Notched Izod, 23°C (J/m)	ASTM D256	46



Complete TDS

Tests & Certifications

Flammabilty	Skin Contact	UV Stability	Chemical Resistance
UL 94 3 mm	ISO 10993-5	ISO 4892-2A Cycle 1	Dataset available

Complementary Products

Ultracur3D® Cleaner





Have a 3D printing project in mind?

At Forward AM, we drive the industrialization of Additive Manufacturing.

We accompany customers from first idea to final printed part - on global scale, at highest quality.

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