

# FUSION3 CERTIFIED MATERIALS / PROFILE LIST (REACTOR PROFILES)

OCTOBER 28, 2020 UPDATE

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Fusion3 3D printers are only compatible with 1.75MM filament

Items in **bold** and **ORANGE HIGHLIGHTS** are new additions

BRAND	NAME	FEATURES	LAYERS OF GLUE STICK	EXPERTISE REQUIRED
<b>ABS</b>				
3DXTECH	"CarbonX" Carbon Fiber ABS	Carbon Fiber Reinforced	3	Novice
3DXTECH	3DXSTAT® ESD ABS	Electrostatic Discharge	3	Novice
3DXTECH	ABS	Carbon Fiber Reinforced	3	Novice
Amazon	ABS		3	Novice
Atomic Filament	ABS		3	Novice
Atomic Filament	Carbon Fiber Ultra Black ABS	Carbon Fiber Reinforced	3	Novice
BASF Inffil3D	ABS		3	Novice
COEX	ABS		3	Novice
Filaments.ca	ABS		3	Novice
Filaments.ca	Carbon Fiber ABS	Carbon Fiber Reinforced	3	Novice
Flash Forge	ABS		3	Novice
FormFutura	ABS		3	Novice
Hatchbox	ABS		3	Novice
IC3D	ABS		3	Novice
Keene Village Plastics	ABS		3	Novice
Kimya	ABS CARBON	Carbon Fiber Reinforced	3	Experienced
Kimya	ABS KEVLAR	Kevlar Fiber Reinforced	3	Experienced
Kimya	ABS-ESD	Electrostatic Discharge	3	Pro
Matterhackers	MH Build Series ABS		3	Novice
MatterHackers	Pro Series ABS		3	Novice
Meltink	ABS		3	Novice
Octave	ABS		3	Novice
Premix	Preperm ABS300	Dielectric/Low Loss (3.0er)	3	Novice
Premix	Preperm ABS550	Dielectric/Low Loss (5.5er)	3	Novice
Push Plastic	ABS		3	Novice
Ultimachine	ABS		3	Novice
Verbatim	ABS		3	Novice
<b>ASA</b>				
3DXTECH	3DXMAX® ASA	Combines mechanical strength, UV resistance and water resistance.	3	Novice
Filaments.ca	ASA	Combines mechanical strength, UV resistance and water resistance.	3	Novice
Fillamentum	ASA	Combines mechanical strength, UV resistance and water resistance.	3	Novice
FormFutura	ApolloX	"Modified ASA for 'almost injection molding like precision'"	3	Novice
Push Plastic	<b>ASA</b>	<b>Combines mechanical strength, UV resistance and water resistance.</b>	<b>3</b>	<b>Experienced</b>
Toner Plastics	ASA	Combines mechanical strength, UV resistance and water resistance.	3	Novice
<b>CO-POLYESTERS</b>				
ColorFabb	HT	TG of 100°C, "excellent durability and toughness".	2	Experienced
ColorFabb	HT Clear	TG of 100°C, "excellent durability and toughness". Same material as HT	2	Experienced
ColorFabb	nGen	Lower temperature, easy to print. No specific engineering-grade properties.	2	Experienced
ColorFabb	XT	FDA food contact safe, BPA free, high strength.	2	Experienced
ColorFabb	XT-CF20	Carbon Fiber reinforced, high strength.	2	Pro
<b>FLEXIBLE</b>				
Fillamentum	Flexfill 98A	Technical semi-flexible filament that offers great mechanical properties such as high tear and tensile strength.	2	Pro
Filaments.ca	<b>TPU (91A)</b>	<b>91A Shore Hardness TPU</b>	<b>2</b>	<b>Pro</b>
Keene Village Plastics	<b>Semper-Flexx98</b>	<b>98A Shore Hardness TPU</b>	<b>2</b>	<b>Pro</b>
NinjaTech	<b>Armadillo</b>	<b>Polyurethane derivate, "providing 90% higher abrasion resistance than nylon materials."</b>	<b>2</b>	<b>Pro</b>
NinjaTech	Cheetah	Durable, abrasion resistant and impact strength.	2	Experienced
<b>HIPS</b>				
Keene Village Plastics	HIPS	Chemically soluble in Limonene.	3	Experienced
Ultimachine	HIPS	Chemically soluble in Limonene.	3	Experienced
<b>NYLON</b>				
3DXTECH	AmideX™ Nylon+GF30	30% glass fiber reinforced Nylon 6 Copolymer.	4	Pro
Atomic Filament	<b>Carbon Fiber Nuclear Nylon V3</b>	<b>Carbon Fiber Reinforced</b>	<b>2</b>	<b>Experienced</b>
ColorFabb	<b>PA-CF Low Warp</b>	<b>Carbon Fiber Reinforced</b>	<b>2</b>	<b>Pro</b>
Filaments.ca	Heavy Duty Carbon Fiber Nylon	Carbon Fiber Reinforced	4	Pro
Filaments.ca	Nylon PA12	Lower moisture absorption than Nylon 6 and UV resistant.	4	Pro
Keene Village Plastics	<b>Nylon</b>		<b>2</b>	<b>Experienced</b>
Matterhackers	NylonG	Fiberglass Reinforced	4	Experienced
MatterHackers	NylonX	Carbon Fiber Reinforced	4	Experienced
Polymaker	PolyMide™ PA6-CF	Carbon Fiber Reinforced	4	Pro
Polymaker	PolyMide™ PA6-GF	Fiberglass Reinforced	4	Pro
Taulman3D	Alloy 910	"High tensile strength, durable, low shrinkage, chemical resistant, 90°C TG"	4	Experienced
Taulman3D	Bridge Nylon	Low priced nylon, similar to 645, low moisture absorption.	4	Pro
Taulman3D	Nylon 645	High strength, machinable with no dust.	4	Pro
Taulman3D	Nylon 680	FDA food safe.	4	Pro
Treed	Carbonium		3	Experienced

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<b>OTHER</b>				
PolyMaker	Polysmooth	"Can be smoothed with Alcohol for layer free models"	1	Experienced
Treed	Architectural: Brick	Decorative material similar to ABS, brick powder added.	3	Experienced
Treed	Architectural: Clay	Decorative material similar to ABS, clay powder added.	3	Experienced
Treed	Architectural: Caementum	Decorative material similar to ABS, cement powder added.	3	Experienced
Treed	Architectural: Dark Stone	Decorative material similar to ABS, stone (dark) powder added.	3	Experienced
Treed	Architectural: Monumental	Decorative material similar to ABS, stone marble-like powder added.	3	Experienced
Treed	Architectural: Sandy	Decorative material similar to ABS, stone sand-like powder added.	3	Experienced
<b>PETG</b>				
3DXTECH	MAX-G™ PETG		2	Experienced
3DXTECH	3DXStat ESD-PETG	Electrostatic Discharge	2	Experienced
3DXTECH	CarbonX™ Carbon Fiber PETG	Carbon Fiber Reinforced	2	Pro
Amazon	PETG		2	Experienced
Atomic Filament	PETG		2	Experienced
Atomic Filament	Carbon Fiber PETG	Carbon Fiber Reinforced	2	Pro
BASF Innofil3D	PET		2	Experienced
COEX	PETG		2	Experienced
E3D Spoolworks	Edge		2	Experienced
Filaments.ca	PETG		2	Experienced
Hatchbox	PETG		2	Experienced
IC3D	PETG		2	Experienced
Keene Village Plastics	PETG		2	Experienced
Push Plastic	PETG		2	Experienced
Taulman3D	guideline	High glass transition PETG, FDA safe in raw form.	2	Experienced
Taulman3D	T-Glase	FDA safe in raw form, low TG/.	2	Experienced
Toner Plastics	PETG		2	Experienced
Verbatim	PET		2	Experienced
<b>PLA</b>				
3D-Fuel	Pro PLA (v2)	"Higher tensile strength than ABS, higher impact strength than ABS"	1	Novice
3D-Fuel	Workday PLA	"Stronger and more heat resistant than standard PLA"	1	Novice
3D4Makers	Facilian C8	"Higher tensile strength than ABS, higher impact strength than ABS"	1	Novice
3DXTECH	3DXSTAT™ ESD PLA	Electrostatic Discharge	1	Experienced
3DXTECH	CarbonX™ Carbon Fiber PLA	Carbon Fiber Reinforced	1	Experienced
3DXTECH	ECOMAX® PLA		1	Novice
Amazon	PLA		1	Novice
<b>Amolen</b>	<b>Temp Color Change PLA</b>	<b>Changes color when heated above 33°C.</b>	<b>1</b>	<b>Novice</b>
Atomic Filament	Carbon Fiber Extreme PLA	Carbon Fiber Reinforced	1	Experienced
Atomic Filament	Glow in the Dark PLA	Glow In The Dark (highly abrasive!)	1	Experienced
Atomic Filament	PLA		1	Novice
BASF Innofil3D	PLA		1	Novice
BuMat	Elite High Speed PLA		1	Novice
Casius Tech	PLA		1	Novice
COEX	PLA		1	Novice
ColorFabb	GlowFill	Glow In The Dark (highly abrasive!)	1	Novice
ColorFabb	PLA/PHA		1	Novice
ColorFabb	Woodfill	Wood Filled	1	Experienced
Essentium	PLA XTR	"Decreased Brittleness, superior tensile strength, better impact resistance"	1	Novice
eSUN	PLA+ 3D		1	Novice
Filaments.ca	Carbon Fiber PLA	Carbon Fiber Reinforced	1	Experienced
Filaments.ca	Tough PLA		1	Novice
Filaments.ca	TRUE Food Safe PLA	"Food safe (FDA Approved Raw Materials)"	1	Experienced
Filkemp	PLA 881N		1	Novice
Flenstech	PLA	Use PLA profile	1	Novice
<b>FormFutura</b>	<b>EasyFill PLA</b>		<b>1</b>	<b>Novice</b>
FormFutura	MetalFil - Ancient Bronze	80% metal powder, "real bronze look and "cold" bronze metal feel"	1	Pro
FormFutura	MetalFil - Classic Copper	80% metal powder, "real copper look and "cold" copper metal feel"	1	Pro
Hatchbox	PLA		1	Novice
IC3D	PLA		1	Novice
JustPLA	JustPLA		1	Novice
Keene Village Plastics	Performance PLA	"High heat, high impact grade of PLA... alternative to ABS"	1	Novice
Keene Village Plastics	PLA		1	Novice
<b>MadMaker</b>	<b>PLA+</b>		<b>1</b>	<b>Novice</b>
Matterhackers	PRO Series Tough PLA	"Engineered for strength and durability... reliability and ease-of-use of PLA"	1	Novice
Meltink	PLA		1	Novice
Meltink	PLA/PHA		1	Experienced
<b>Octave</b>	<b>PLA</b>		<b>1</b>	<b>Novice</b>
Proto-Pasta	Brass-Filled HTPLA	Brass (Metal) Reinforced	1	Experienced
Proto-Pasta	Bronze-Filled HTPLA	Bronze (Metal) Reinforced	1	Experienced
Proto-Pasta	Carbon Fiber PLA	Carbon Fiber Reinforced	1	Experienced
Proto-Pasta	Composite Conductive PLA		1	Experienced
Proto-Pasta	Copper PLA		1	Experienced
Proto-Pasta	HTPLA	High Temperature Resistance	1	Experienced
Proto-Pasta	Iron-Filled PLA	Iron (Metal) Reinforced	1	Pro
Push Plastic	PLA		1	Novice
Sainsmart	PRO-3 Series PLA		1	Experienced
Ultimachine	PLA		1	Novice
Verbatim	PLA		1	Novice
Ziro3D	Carbon Fiber PLA		1	Experienced
<b>Ziro3D</b>	<b>PLA</b>		<b>1</b>	<b>Novice</b>

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<b>POLYCARBONATE</b>				
3DXTECH	3DXMAX® PC/ABS	Polycarbonate/ABS blend	3	Novice
<b>3DXTECH</b>	<b>3DXMAX® PC/ASA</b>		<b>2</b>	<b>Pro</b>
3DXTECH	3DXSTAT™ ESD PC	Electrostatic Discharge	2	Pro
COEX	Polycarbonate		2	Experienced
Filaments.ca	"Easy" PC		2	Pro
Keene Village Plastics	Polycarbonate		2	Pro
<b>Polymaker</b>	<b>PolyLite PC</b>		<b>2</b>	<b>Pro</b>
Polymaker	PolyMax PC		2	Pro
Priline	Carbon Fiber PC	Carbon Fiber Reinforced	2	Experienced
Proto-Pasta	PC-ABS	Polycarbonate/ABS Blend	3	Novice
Push Plastic	PC+PBT	Addition of PBT to Polycarbonate makes material much easier to print while maintaining many of same qualities: 109°C TG, stiffness, impact performance, chemical resistance.	2	Experienced
Ultimachine	Polycarbonate		2	Pro