

Photocentric Industrial Resins Overview

Industrial Resins		Colour	Ultimate Tensile Strength (MPa)	Elongation at Break (%)	Tensile Modulus (MPa)	Shore Hardness	Flexural Strength (MPa)	Flexural Modulus (MPa)	Impact Properties Notched Izod (J/m)	Tear Strength (kN/m)	Rebound Resilience (%)	Heat Deflection (°C) at 0.45 MPa	Water Absorption Short Term (24 hours %)	Viscosity (cPs) (at 25°C)	Compatible with 385 & 405nm 3D Printers	Compatible with 460nm 3D Printers	Additional Information	Comparable Thermoplastic
Rigid	Rigid DLFR	Black	66	3.5	2848	92D	115	3400	19	N/A	N/A	260	0.46	680	-	Yes	UL94-V0	PEI – Ultem
	Rigid UVFR	Black	75	2.3	4170	92D	115	3400	22	N/A	N/A	260	0.4	580	Yes	-	UL94-V0	PEI – Ultem
	HighTemp DL400	Translucent	80	4	4000	95D	109	3300	16	N/A	N/A	230	0.35	650		Yes	Passed ISO 10993-5	PPS
	HighTemp DL401	Translucent	77	5	3180	92D	123	3240	16	N/A	N/A	270	0.28	700	-	Yes	-	PPS
	Cast DL60	Black	40	40	2200	85D	76	1880	50	N/A	N/A	61	0.22	630	-	Yes	-	-
	Magna Draft	Green	84	4.4	3200	90D	109	2840	23	N/A	N/A	230	-*	970	-	Yes	Passed ISO 10993-5	PMMA
	Magna Hard	Black	57	8	2080	86D	65	1550	100	N/A	N/A	90	-*	450	-	Yes	-	PMMA
	Rigid DL240Plant-Based	Translucent	65	6.1	2440	88D	108	2656	12	N/A	N/A	78	0.47	580	-	Yes	50% bio-content	PMMA
	Rigid UV240 Plant Based	Translucent	54	5.4	2080	84D	108	2656	12	N/A	N/A	78	0.47	580	Yes	-	50% bio-content	PMMA
	High Tensile UV	Grey	65	6	2610	80D	-*	1910	-*	N/A	N/A	63	-*	510	Yes	-	-	PMMA
	Hard UV	Grey/Black	35	4	2060	77D	-*	-*	-*	N/A	N/A	60	-*	-	Yes	-	-	PMMA
Polycarbonate-like 405nm	Grey/Black**	58	6	2330	87D	90	2190	42	N/A	N/A	110	0.1	740	Yes	-	Irritant only	PC	
Durable	Durable DL110H	Translucent	52	26	2240	86D	81	2080	150	N/A	N/A	80	0.66	480	-	Yes	-	Nylon 6
	Durable DL110H	Black	54	28	2100	86D	78	1950	110	N/A	N/A	75	0.62	480	-	Yes	-	Nylon 6
	Durable DL90 Plant- Based	Black	47	37	2290	82D	71	1790	86	N/A	N/A	68	0.28	900		Yes	52% bio-content	ABS
	Tough DL170	Black	36	185	1450	70D	38	1120	79	N/A	N/A	52	1.5	1300	-	Yes	-	PP Copolymer
	Magna Duramax	Black	50	19	1760	70D	70	1600	51	N/A	N/A	60	1.4	395	-	Yes	-	ABS
	Durable UV80	Black/Clear	46	13	1940	84D	28	760	67	N/A	N/A	65	-*	400	Yes	-	-	ABS
	Durable SuperClear	Clear	46	16.5	2270	85D	62	1730	90	N/A	N/A	71	0.33	662	Yes	-	-	ABS
Flexible	Elastic DL160	Translucent/Black	12	162	13	70A	N/A	N/A	N/A	20	10	N/A	0.34	1100	-	Yes	Tg -24 °C	-*
	Flexible UV160	Translucent	14.5	160	67	86A	N/A	N/A	N/A	54	30	N/A	1.74	470	Yes	-	-	-*
	Flexible DL220	Black	14	211	66	80A	N/A	N/A	N/A	21	20	N/A	0.32	1600	-	Yes	-	-*
Partner Resins																		
Forward AM	EPD1006	Black	40	25	1500	79D	52	1460	35	N/A	N/A	44	0.83	1033	-	Yes	Passed ISO 10993-5	-*
	EPD1086	Black	42	26	1810	81D	67	1620	28	N/A	N/A	53	0.23	450	-	Yes		-*
	EPD2006	Black	50	10.3	2370	80D	90	2210	11	N/A	N/A	81	0.61	310	-	Yes	Passed ISO 10993-5	-*
	EPD3500	Translucent	60	18	2500	79D	110	2400	25	N/A	N/A	70	0.5	600	-	Yes		-*

*Contact Photocentric for more information
 ** Previously named UV Basics



Photocentric Dental Resins Overview

Dental Resins		Colour	Ultimate Tensile Strength (MPa)	Elongation at Break (%)	Tensile Modulus (MPa)	Shore Hardness	Flexural Strength (MPa)	Flexural Modulus (MPa)	Impact Properties Notched Izod (J/m)	Tear Strength (kN/m)	Rebound Resilience (%)	Heat Deflection (°C) at 0.45 MPa	Water Absorption Short Term (24 hours %)	Viscosity (cPs) (at 25°C)	Compatible with 385 & 405nm 3D Printers	Compatible with 460nm 3D Printers	Additional Information	Comparable Thermoplastic
Dental	Magna Dental Model	White	63	4.3	3020	90D	95	2200	22.7	N/A	N/A	95	-*	900	-	Yes	-	-
	Magna Dental Model	Beige	56	2.7	2750	84D	84	2570	19.5	N/A	N/A	- *	0.13	150	-	Yes	Passed ISO 10993-5	-
	Dental Model UV	Beige/Grey/White	70	4	2800	90D	-	1700	-	N/A	N/A	- *	0.3	250	Yes	-	-	-

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