



Liquid Crystal
MAGNA

	Rigid							Durable			BASF				
	High Tensile White	Draft	Hard	Concept	Dental Model White	Dental Model Beige	High Temp DL400	Durable	Duramax	Durable DL110H	EPD1006	EPD1086	EPD2006	EPD3500	EPD4006
Colour	White	Turquoise	Black	Green	White	Beige	Amber	Black	Black	Black / White / Smoky Quartz	Black	Black	Black	Amber	Black
Ultimate Tensile Strength (MPa)	81	84	52	61	63	56	80	42	50	60	40	42	81	60	45
Elongation at break (%)	4.8	4.4	10	3.7	4.3	2.7	4	30	19	14	25	26	10.3	19	45
Tensile Modulus (MPa)	3060	3200	2600	2810	3020	2750	4000	1570	1760	2100	1500	1800	2370	2750	1800
Shore Hardness	92D	90D	86D	92D	90D	84D	95D	60D	70D	85D	79D	81D	80D	79D	78D
Flexural Strength (MPa)	95	109	65	87	95	84	109	52	28	81	52	67	90	110	70
Flexural Modulus (MPa)	2200	2840	1550	2060	2200	2570	3300	1460	760	2080	1460	1620	2210	2400	1600
Impact Properties Notched izod (J/m) ASTM D256	22.7	22.6	55	32.6	22.7	19.5	15.6	91	51	110	11	28	11	25	46
Heat Deflection (°C) at 0.45 MPa ASTM D648	95	75	85	85	95	--*	230	45	60	80	44	53	81	70	54
Biocompatibility Cytotoxicity ISO 10993-5	--*	Passed	--*	--*	--*	Passed	Passed	Passed	--*	--*	Passed	--*	Passed	--*	--*
Skin irritation and sensitization ISO 10993-10	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	--*	Passed	--*	--*
Comparable Thermoplastic	PA12	PA12	PMMA	PA12	--*	--*	PA12	PLA	ABS	ABS	--*	--*	--*	--*	--*
Water Absorption, Short Term (24 hours) ASTM D570	--*	--*	--*	--*	--*	0.13%	0.35%	1%	1.4%	1.06%	1%	0.11%	--*	--*	1.6%
TDS	HTW TDS	Draft TDS	Hard Black TDS	Concept Green TDS	DMW TDS	DMB TDS	HighTemp DL400 TDS	Durable TDS	Dura-max TDS	Durable DL110H TDS	EPD1006 TDS	EPD1086 TDS	HTW TDS EPD2006 TDS	EPD3500 TDS	EPD4006 TDS

*Contact us for more information

