



4LEX® is the registered trade name for Polycarbonate (PC) compounds produced by 4PLAS.

Property	Condition	Unit	Standard	4LEX 10F25700 PC UV stabilised & mould release. High transparency	4LEX 10F20000 PC UV stabilised, high transparency & mould release. Available in clear & tints	4LEX 10F13301 PC General purpose. Meets UL 94 V2. Available in clear, tints and solid colours	4LEX 10F23301 PC General purpose, easy flow. Meets UL 94 V2. Available in clear, tints and solid colours	4LEX 10F13100 PC Flame retardant. Meets UL 94 V0 @ 1.6mm. High transparency. Available in clear & tints	4LEX 10F13500 PC Halogen free. Meets UL 94 V0 @ 1.6mm. Available in tints and solid colours	4LEX 18F22110 FR3 PC 10% Glass fibre. Meets UL 94 V2 @ 1.6mm	4LEX18F22120 FR2 PC 20% Glass fibre. Meets UL 94 V1 @ 1.6mm. Good mechanical properties	4LEX 18F22130 FR2 PC 30% Glass fibre. Meets UL 94 V1 @ 1.6mm. Good mechanical properties	4LEX 18F22120 FR1 PC 20% Glass fibre. Meets UL 94 V0 @ 1.6mm	
Mechanical														
Izod Impact, Notched	+23°C	KJ/m2	ISO 180/1A	55	50	45	30	50	30	6	9	11	9	
Izod Impact, Notched	-30°C	KJ/m2	ISO 180/1A	-	15	-	-	15	-	-	7	10	-	
Tensile Modulus	+23°C	MPa	ISO 527	2400	2500	2500	2500	2500	2500	3600	5000	7000	5500	
Tensile Strain at Break	+23°C	%	ISO 527	>50	>50	>50	>50	>50	>30	6	5	3	3	
Tensile Stress at Break	+23°C	MPa	ISO 527	62	64	64	62	66	60	80	105	130	105	
Thermal														
Heat Deformation Temperature	0.45 MPa	°C	ISO 75-1/2	139	144	140	140	144	136	144	144	144	149	
Heat Deformation Temperature	1.80 MPa	°C	ISO 75-1/2	124	133	135	135	133	130	139	139	139	147	
Vicat Softening Temperature	50N	°C	ISO 306	-	145	148	148	148	153	147	147	148	150	
Electrical & Flammability														
Glow Wire Test	2mm Plaque	°C	IEC 60695	850	850	850	850	960	960	850	960	960	960	
Flame Rating	1.6mm	Class	UL94	-	V-2	V-2	V-2	V-0	V-0	V-2	V-1	V-1	V-0	
Flame Rating	3.2mm	Class	UL94	-	V-2	V-2	V-2	V-0	V-0	V-2	V-1	V-1	V-0	
Physical														
Melt Flow Rate	23°C	g/10mins	ISO 1133	22	16	15	22	10	15	-	-	-	-	
Specific Gravity		g/cm 3	ISO 1183	1.20	1.20	1.20	1.20	1.24	1.24	1.25	1.34	1.43	1.34	
Water Absorption	Saturation, 23°C	%	ISO 62	0.24	0.20	0.15	0.15	0.15	0.15	0.13	0.08	0.05	0.15	
Mould Shrinkage	Parallel	%	ISO 2557	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.5-0.7	0.3-0.5	0.3-0.5	0.2-0.47	0.1-0.2	

NOTE: The above given properties are based on our general experience and are given in good faith, however due to the many factors which are outside of our knowledge and control which effect the use of the products, no warranty is given, nor implied with respect of such information. This data is for reference purposes only and should not be used alone as the basis for product design or to create specification limits. It is therefore strongly recommended that users test the product under their processing conditions to determine the suitability for any required application and or use.