

TYNEC® – Polycarbonate

STANDARD GRADES

TYPICAL PROPERTIES*	UNIT	ASTM Test	General Purpose		FR	Impact Modified	Structural Foam	Glass Fiber Reinforced		
								10%	20%	30%
			600	1600	V1200					
			1100	2200	V1700	C1280	CFV50	CG100	CG200	CG300
GENERAL										
Specific Gravity		D792	1.20	1.20	1.21	1.19	1.00	1.27	1.35	1.44
Water Absorption; 24	%	D570	0.15	0.15	0.15	0.15	0.14	0.13	0.12	0.11
hrs		D570	0.35	0.35	0.35	0.35	0.33	0.32	0.29	0.29
Equilibrium	10 ³ in/in	D955	5-7	5-7	5-7	5-7	4-7	3-5	2-4	1-3
Mold Shrinkage										
Melt Flow	g/10 min	D1238	6.0	16.0	12.0	12.0	8.0	8.0	6.0	5.0
			11.0	22.0	17.0					



Mechanical Tensile Strength at Break Tensile Modulus Elongation @ Yield @ Break Flexural Strength Flexural Modulus Izod Impact (¼") -notched -un-notched	lb/in²	D638	10,500	10,000	10,000	9,000	6,500	10,000	16,000	18,000
	10³ lb/in²	D638	350	350	350	340	320	560	940	1300
	%	D638	5.5	5.5	5.0	6.0	-	-	-	-
	%	D638	115	115	110	115	5.0	8.0	3.0	2.0
	lb/in²	D790	13,000	12,000	13,000	12,000	11,000	14,900	19,000	23,000
	10³ lb/in²	D790	340	340	340	320	360	500	840	1200
	ft-lbs/in	D256	16	13	15	15	-	2.5	2.0	3.0
	ft-lbs/in	D256	NB	NB	NB	NB	-	35	20	22
Electrical Dielectric Strength air/.125 Volumn Resisitivity Dielectric Constant @ 1Mhz Dissipation Factor @1Mhz	V/mil	D149	400	400	400	400	400	400	400	400
	ohm-cm	D257	1.0E+1	1.0E+16	1.0E+16	1.0E+16	1.0E+16	1.0E+16	1.0E+1	1.0E+1
	-	D150	6	2.9	2.9	3.1	2.7	3.0	6	6
	-	D150	2.9	0.01	0.01	0.01	0.02	0.01	3.2	3.2
			0.01						0.01	0.01
Thermal Deflection Temp @ 264psi @66 psi	*F	D648	265	260	265	260	260	285	290	300
	*F	D648	275	270	275	270	270	295	294	306
Flammability** UL94 Class, 1/16" UL94 Class, 1/8"	-	-	V2	V2	V2	V2	V2	V2	V2	V2
	-	-	V2	V2	V0	V2	V0	V1	V1	V1

*Data measured on natural color specimens.

