



TECHNICAL:
Typical Resin Properties

<i>Test Method/Material Property</i>	ASTM Test Method	Kynar®	Polycarb	Radiation Stable PC	Polypro	Nylon^a	GF Nylon^a	ABS	MABS	Polysulfone	PEEK	Delrin
Tensile Strength	D638	5,400	10,000	9,800	—	12,000	27,000	4,800	—	—	—	—
Elongation at Break, %	D638	100-400	120	150	375	300	3	50	12	50-100	20	40
Tensile Yield Strength, psi	D638	6,500	9,200	9,800	4,400	12,000	—	5,700	6,960	10,200	14,500	9,900
Flexural Modulus, kpsi	D790	360	330	350	170	410	1,300	330	—	390	594	450
Rockwell Hardness D	D785	—	R118	R118	R80-102	R121	—	R107	—	—	—	R122
Rockwell Hardness M	—	—	M75	M72	—	M79	M101	—	—	M69	—	M89
Shore Hardness D	D2240	D76-80	—	—	—	—	—	—	—	—	—	—
Coef. of Linear 10-5 in/in/°F	D696	7.6	3.9	3.8	—	4	1.3	5.5	—	3.1	<Tg 2.6 >Tg 6.0	—
Deflection Temp°F @264psi	D648	244	266	252	—	194	480	173	194	345	320	216
Deflection Temp°F @66psi	D648	—	273	—	190	455	—	—	201	358	—	332
Water Absorption, %, 24 h	D570	0.015	0.15	0.15	0	1.2	0.7	0.25-0.40	0.7	0.3	0.5	0.4
Izod Impact, (Notched) ft-lb/in	D256	3.1	16.0	14.0	0.5	1.0	2.2	6.0	1.31	1.3	1.12	—

