

MATERIAL DATA SHEETS

PROPERTIES	UNITS	ASTM TEST METHOD	ACETAL	POLYCARBONATE	PVDF (KYNAR®)	PTFE (TEFLON®)
Tensile strength at yield	psi Mpa	D-638	9700-10,000 68	9000 62	5000-7000 34-48	3000 21
Elongation at yield at fail	% %	D-638	NR 4	100-130 135	NR 50-250	NR 300
Flexural Modulus at yield	10 ³ psi Mpa	D-790	380-430 2620-2965	340-350 2344-2413	170-325 1172-2240	500 3447
Isod impact strength notched	ft-lb/in joules/M	D-256	1.2-2.3 64-123	17 908	20-80 1068-4270	3.0 160
Deflection temp. at 66 psi at 264 psi	°F (°C) °F (°C)	D-648	330-342 (165-172) 270-277 (132-136)	300-305 (149-152) 290-295 (143-146)	234-284 (112-140) 176-194 (80-90)	260 (127) 132 (55)
Melting point	°F °C	D-789	347-358 175-181 T _m	284-302 140-150 T _G	330 165	612 322
Dielectric strength	V/mil	D-149	500	380-399	260	600
Volume resistivity	ohm-cm	D-257	>1 x 10E+15	>1 x 10E+16	1 x 10E+12- 1 x 10E+14	>1 x 10E+18
Water absorption	%/24hr.	D-570	.21-.25	0.15	<0.05	<.01
UL flammability	---	UL 94	94 HB	94 V-2	94 V-0	94 V-0
Rockwell Hardness	---	R, M scales	M90-M94	R118	R79-83	R58
Flexural strength	10 ³ psi Mpa	D-638	13.6-14.1 95	14-14.2 97	6.5-9.0 45-62	No Break
Thermal conductivity	Btu-in/hr-ft ² -°F W/m-°C	---	1.6 .23	1.3 .19	.87 .13	1.7 .25
Specific Gravity	---	D-792	1.42	1.2	1.75	2.2
Max. service temperature	°F °C	---	195 91	212 100	300 150	500 260

NR: Not Reported

PLEASE NOTE: To the best of our knowledge, the information contained in this guide is accurate, is based upon accepted technical practices and is believed to be reliable. Final determination of suitability of any process or material is the sole responsibility of the user. Product Components Corp. does not assume any liability for the accuracy or completeness of this information.