



BOEDEKER
PLASTICS, INC.

Krefine®
ESD Control Materials (Sheets)

Boedeker Plastics, Inc.
904 West 6th Street
Shiner, TX 77984
800-444-3485
www.boedeker.com

General characteristics

	Property	ASTM Method	Units	PEEK				PEI	PPS
				EKH-SS07	EKH-SS09	EKH-SS11	EKH-SS12	EIH-SS11	CDH-SS08
Mechanical	Specific gravity	D-792	–	1.33	1.31	1.31	1.31	1.32	1.37
	Tensile strength	D-638	MPa	140	135	110	77	110	110
	Tensile elongation		%	2.5	3.0	3.5	2.7	2.2	1.4
	Flexural strength	D-790	MPa	200	190	170	139	130	140
	Flexural modulus			10,000	8,000	6,000	4,900	5500	9000
	Compressive strength	D695	MPa	180	172	155		125	–
	Compressive modulus			9,000	7,500	5,820		5000	–
	Rockwell hardness	D785	M scale	125	125	125	125	105	105
	Izod impact strength	D-256	J/m	30	30	30	28	29	25
	Heat deflection temperature 1.82MPa	D-648	°C	305	305	280	280	215	260
Thermal	Coefficient of linear thermal expansion 30°C–140°C	D696	× 10 ⁻⁵ /°C	1.5	1.5	1.5	1.5	2.0	–
	Glass transition temperature	D3418	°C	143	143	143	143	215	90
	Crystal melting temperature	D3418	°C	340	340	340	340	–	290
	Continuous service temperature	KCI method	°C	260	260	260	260	170	–
Electrocal	Surface resistance	ESD11.11	ohms	1.0E+06–9.9E+08	1.0E+08–9.9E+10	1.0E+10–9.9E+12	1.0E+11–9.9E+12	1.0E+10–9.9E+13	1.0E+07–9.9E+09
	Dielectric constant 1MHz	D150	–	7.9	6.6	5.3		6.8	–
	Dielectric loss tangent 1MHz			0.22	0.21	0.16		0.14	–
	Flammability	UL94	–	V-0	V-0	V-0	V-0	V-0	V-0
Chemical resistance (1)	Water absorption immersion 24h	D570	% by wt.	0.2	0.2	0.2	0.2	0.4	0.05
	Water absorption immersion saturation	D570	% by wt.	0.3	0.3	0.3	0.3	0.6	0.05
	Weak acid; acetic acid, benzoic acid, hydrochloric acid, sulfuric acid			A	A	A	A	A	A
	Strong acid; conc.hydrochloric, nitric acid, sulfuric acid			L	L	L	L	L	L
	Weak alkalies; dilute ammonia, potassium hydroxide, sodium hydroxide			A	A	A	A	A	A
	Strong alkalies; strong ammonia, potassium hydroxide, sodium hydroxide			A	A	A	A	L	A
	Hydrocarbons–aromatic; benzen, toluene, naphthalene			A	A	A	A	L	A
	Hydrocarbons–aliphatic; heptane, gasoline, hexane, iso–octane, grease			A	A	A	A	A	A
	Aldehydes and Ketones; acetone, methyl ethyl ketone, N–methyl–2–pyrrolidone			A	A	A	A	L	A
	Esters; aliphatic esters, amyl acetate, dimethyl phthalate			A	A	A	A	L	A
	Chlorinated solvent; methylene chloride, chloroform			A	A	A	A	L	A
	Alcohols; methanol, ethanol, glycols, benzyl alcohol			A	A	A	A	A	A
	Inorganic salt solutions; sodium chloride, sodium carbonate, potassium cyanate			A	A	A	A	A	A
Size of Stock–Shape (plate) : W (mm) * L (mm) * T (mm)				500*500*10 500*500*12.5 500*500*20				500*500*10 500*500*20	600*600*20

(1) Chemical resistance was evaluated at 23°C.

A–Acceptable service
L–Limited service
U–Unacceptable

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