

Table 4. MISSE 2 PEACE Polymers Erosion Yield Data.

MISSE Serial #	Material	Polymer Abbrev.	MISSE 2 Mass Loss (g)	Density (g/cm ³)	Area (cm ²)	MISSE 2 Erosion Yield (cm ³ /atom)
2-E5-6	Acrylonitrile butadiene styrene	ABS	0.033861	1.0500	3.4944	1.09E-24
2-E5-7	Cellulose acetate	CA	0.191482	1.2911	3.4831	5.05E-24
2-E5-8	Poly-(p-phenylene terephthalamide)	PPD-T (Kevlar)	0.026790	1.4422	3.5099	6.28E-25
2-E5-9	Polyethylene	PE	0.102760	0.9180	3.5489	> 3.74E-24
2-E5-10	Polyvinyl fluoride	PVF (Tedlar)	0.132537	1.3792	3.5737	3.19E-24
2-E5-11	Crystalline polyvinylfluoride w/white pigment	PVF (White Tedlar)	0.004714	1.6241	3.4176	1.01E-25
2-E5-12	Polyoxymethylene; acetal; polyformaldehyde	POM (Delrin)	0.378378	1.3984	3.5119	9.14E-24
2-E5-13	Polyacrylonitrile	PAN	0.047281	1.1435	3.4768	1.41E-24
2-E5-14	Allyl diglycol carbonate	ADC (CR-39)	0.267295	1.3173	3.5392	> 6.80E-24
2-E5-15	Polystyrene	PS	0.115947	1.0503	3.5043	3.74E-24
2-E5-16	Polymethyl methacrylate	PMMA	0.194588	1.1628	3.5456	> 5.60E-24
2-E5-17	Polyethylene oxide	PEO	0.066395	1.1470	3.5591	1.93E-24
2-E5-18	Poly(p-phenylene-2 6-benzobisoxazole)	PBO (Zylon)	0.056778	1.3976	3.5526	1.36E-24
2-E5-19	Epoxide or epoxy	EP	0.140720	1.1150	3.5576	4.21E-24
2-E5-20	Polypropylene	PP	0.072357	0.9065	3.5336	2.68E-24
2-E5-21	Polybutylene terephthalate	PBT	0.036429	1.3318	3.5619	9.11E-25
2-E5-22	Polysulphone	PSU	0.105948	1.2199	3.5010	2.94E-24
2-E5-23	Polyurethane	PU	0.057227	1.2345	3.5182	1.56E-24
2-E5-24	Polyphenylene isophthalate	PPPA (Nomex)	0.030549	0.7200	3.5626	1.41E-24
2-E5-25	Graphite	PG	0.02773	2.2200	3.5703	4.15E-25
2-E5-26	Polyetherimide	PEI	0.126853	1.2873	3.5352	> 3.31E-24
2-E5-27	Polyamide 6 or nylon 6	PA 6	0.118376	1.1233	3.5646	3.51E-24
2-E5-28	Polyamide 66 or nylon 66	PA 66	0.065562	1.2252	3.5249	1.80E-24
2-E5-29	Polyimide	PI (CP1)	0.080648	1.4193	3.5316	1.91E-24
2-E5-30	Polyimide (PMDA)	PI (Kapton H)	0.124780	1.4273	3.4590	3.00E-24
2-E5-31	Polyimide (PMDA)	PI (Kapton HN)	0.121315	1.4345	3.5676	2.81E-24
2-E5-32	Polyimide (BPDA)	PI (Upilex-S)	0.038127	1.3866	3.5382	9.22E-25
2-E5-33	Polyimide (PMDA)	PI (Kapton H)	0.129250	1.4273	3.5773	3.00E-24
2-E5-34	High temperature polyimide resin	PI (PMR-15)	0.118887	1.3232	3.5256	> 3.02E-24
2-E5-35	Polybenzimidazole	PBI	0.082708	1.2758	3.4762	> 2.21E-24
2-E5-36	Polycarbonate	PC	0.142287	1.1231	3.5010	4.29E-24
2-E5-37	Polyetheretherkeytone	PEEK	0.107764	1.2259	3.4821	2.99E-24
2-E5-38	Polyethylene terephthalate	PET (Mylar)	0.125187	1.3925	3.5432	3.01E-24
2-E5-39	Chlorotrifluoroethylene	CTFE (Kel-f)	0.052949	2.1327	3.5452	8.31E-25
2-E5-40	Halar ethylene-chlorotrifluoroethylene	ECTFE (Halar)	0.088869	1.6761	3.5103	1.79E-24
2-E5-41	Tetrafluoroethylene-ethylene copolymer	ETFE (Tefzel)	0.049108	1.7397	3.4854	9.61E-25
2-E5-42	Fluorinated ethylene propylene	FEP	0.012479	2.1443	3.4468	2.00E-25
2-E5-43	Polytetrafluoroethylene	PTFE	0.008938	2.1503	3.4841	1.42E-25
2-E5-44	Perfluoroalkoxy copolymer resin	PFA	0.010785	2.1383	3.4570	1.73E-25
2-E5-45	Amorphous Fluoropolymer	AF	0.012352	2.1463	3.4544	1.98E-25
2-E5-46	Polyvinylidene fluoride	PVDF (Kynar)	0.066860	1.7623	3.4993	1.29E-24