

Spectral directional emissivity ε_λ determined under various angles with respect to the surface normal

Sample: Aeroglaze Z306 at 150 °C. Coating thickness: 44 μm

Uncertainty is given as standard uncertainty ($k=1$)

Wavenumber / cm^{-1}	$\varepsilon_\lambda(10^\circ)$	$u(10^\circ)$	$\varepsilon_\lambda(30^\circ)$	$u(30^\circ)$	$\varepsilon_\lambda(50^\circ)$	$u(50^\circ)$	$\varepsilon_\lambda(70^\circ)$	$u(70^\circ)$	Wavelength / μm
100.29	0.5891	0.0136	0.5509	0.0164	0.4564	0.0182	0.4198	0.0188	99.711
109.93	0.6539	0.0129	0.6681	0.0109	0.5971	0.0143	0.4325	0.0181	90.964
119.58	0.5752	0.0137	0.6532	0.0119	0.7054	0.0107	0.5271	0.0152	83.629
129.22	0.4843	0.0169	0.5681	0.0134	0.7105	0.0100	0.6697	0.0107	77.387
138.86	0.4349	0.0174	0.4855	0.0154	0.6229	0.0114	0.6892	0.0111	72.013
148.51	0.4504	0.0155	0.4501	0.0156	0.5460	0.0132	0.6076	0.0117	67.337
158.15	0.5232	0.0135	0.4850	0.0145	0.5035	0.0144	0.5600	0.0124	63.232
167.79	0.6295	0.0110	0.5635	0.0121	0.5025	0.0136	0.5581	0.0123	59.597
177.44	0.6903	0.0090	0.6638	0.0100	0.5481	0.0123	0.5533	0.0125	56.358
187.08	0.6590	0.0096	0.7213	0.0083	0.6376	0.0108	0.5378	0.0125	53.453
196.72	0.5961	0.0108	0.6878	0.0089	0.7271	0.0084	0.5471	0.0123	50.833
206.37	0.5468	0.0118	0.6265	0.0098	0.7648	0.0075	0.6098	0.0102	48.458
216.01	0.5508	0.0112	0.5831	0.0105	0.7339	0.0074	0.6900	0.0082	46.294
225.65	0.6025	0.0105	0.5694	0.0107	0.6761	0.0087	0.7242	0.0077	44.316
235.30	0.6820	0.0088	0.6156	0.0094	0.6330	0.0093	0.7039	0.0085	42.500
244.94	0.7300	0.0072	0.6917	0.0079	0.6208	0.0093	0.6720	0.0083	40.826
254.58	0.7307	0.0072	0.7536	0.0069	0.6450	0.0086	0.6439	0.0087	39.280
264.23	0.7056	0.0073	0.7745	0.0076	0.7077	0.0075	0.6198	0.0091	37.847
273.87	0.6766	0.0081	0.7512	0.0071	0.7771	0.0061	0.6254	0.0089	36.514
283.51	0.6662	0.0079	0.7114	0.0071	0.8178	0.0061	0.6514	0.0080	35.272
293.16	0.6984	0.0071	0.7011	0.0070	0.8130	0.0063	0.6999	0.0071	34.112
302.80	0.7481	0.0067	0.7109	0.0079	0.7870	0.0063	0.7468	0.0064	33.025
312.44	0.7916	0.0057	0.7519	0.0065	0.7630	0.0077	0.7668	0.0065	32.006
322.09	0.8057	0.0058	0.8018	0.0055	0.7454	0.0063	0.7718	0.0063	31.048
331.73	0.8079	0.0054	0.8338	0.0052	0.7715	0.0062	0.7611	0.0065	30.145
341.37	0.7973	0.0060	0.8490	0.0051	0.8133	0.0061	0.7575	0.0063	29.294
351.02	0.7959	0.0055	0.8375	0.0060	0.8523	0.0055	0.7430	0.0063	28.489
360.66	0.8064	0.0058	0.8210	0.0051	0.8731	0.0057	0.7477	0.0065	27.727
370.30	0.8370	0.0053	0.8270	0.0054	0.8817	0.0053	0.7614	0.0060	27.005
379.94	0.8665	0.0060	0.8546	0.0051	0.8675	0.0061	0.7810	0.0074	26.320
389.59	0.8834	0.0072	0.8837	0.0055	0.8697	0.0054	0.8093	0.0059	25.668
399.23	0.8887	0.0051	0.9030	0.0065	0.8787	0.0048	0.8177	0.0050	25.048
408.87	0.9011	0.0062	0.9200	0.0056	0.8864	0.0046	0.8166	0.0055	24.457
418.52	0.9141	0.0047	0.9236	0.0056	0.9110	0.0048	0.8201	0.0055	23.894
428.16	0.9174	0.0051	0.9268	0.0061	0.9235	0.0046	0.8149	0.0061	23.356
437.80	0.9404	0.0065	0.9443	0.0058	0.9382	0.0046	0.8232	0.0055	22.841
447.45	0.9520	0.0064	0.9391	0.0048	0.9372	0.0067	0.8245	0.0049	22.349
457.09	0.9512	0.0063	0.9478	0.0063	0.9337	0.0058	0.8302	0.0055	21.878
466.73	0.9535	0.0049	0.9574	0.0059	0.9430	0.0056	0.8290	0.0065	21.425
476.38	0.9552	0.0050	0.9555	0.0051	0.9460	0.0048	0.8367	0.0057	20.992
486.02	0.9610	0.0049	0.9633	0.0053	0.9397	0.0054	0.8429	0.0047	20.575
495.66	0.9602	0.0080	0.9578	0.0062	0.9475	0.0061	0.8470	0.0061	20.175