

Spectral directional emissivity ϵ_λ determined under various angles with respect to the surface normal
Sample: Nextel 811-Z1 at 120 °C
Uncertainty is given as standard uncertainty ($k=1$)

Wavenumber / cm-1	$\epsilon_\lambda(10^\circ)$	$u(10^\circ)$	$\epsilon_\lambda(20^\circ)$	$u(20^\circ)$	$\epsilon_\lambda(30^\circ)$	$u(30^\circ)$	$\epsilon_\lambda(40^\circ)$	$u(40^\circ)$	$\epsilon_\lambda(50^\circ)$	$u(50^\circ)$	$\epsilon_\lambda(60^\circ)$	$u(60^\circ)$	$\epsilon_\lambda(70^\circ)$	$u(70^\circ)$	Wavelength / μm
100.29	0.9420	0.0053	0.9420	0.0053	0.9119	0.0084	0.9119	0.0084	0.9295	0.0109	0.9295	0.0109	0.8178	0.0107	99.711
109.93	0.9050	0.0082	0.9050	0.0082	0.9576	0.0041	0.9576	0.0041	0.9013	0.0084	0.9013	0.0084	0.8345	0.0094	90.964
119.58	0.9314	0.0068	0.9314	0.0068	0.9209	0.0096	0.9209	0.0096	0.9367	0.0056	0.9367	0.0056	0.8227	0.0111	83.629
129.22	0.9370	0.0068	0.9370	0.0068	0.9559	0.0059	0.9559	0.0059	0.9248	0.0053	0.9248	0.0053	0.8319	0.0096	77.387
138.86	0.9338	0.0064	0.9338	0.0064	0.9459	0.0045	0.9459	0.0045	0.9286	0.0050	0.9286	0.0050	0.8363	0.0090	72.013
148.51	0.9502	0.0030	0.9502	0.0030	0.9491	0.0040	0.9491	0.0040	0.9411	0.0042	0.9411	0.0042	0.8413	0.0085	67.337
158.15	0.9502	0.0035	0.9502	0.0035	0.9540	0.0034	0.9540	0.0034	0.9403	0.0038	0.9403	0.0038	0.8466	0.0078	63.232
167.79	0.9567	0.0027	0.9567	0.0027	0.9555	0.0031	0.9555	0.0031	0.9487	0.0033	0.9487	0.0033	0.8527	0.0074	59.597
177.44	0.9589	0.0052	0.9589	0.0052	0.9585	0.0035	0.9585	0.0035	0.9472	0.0057	0.9472	0.0057	0.8587	0.0074	56.358
187.08	0.9582	0.0044	0.9582	0.0044	0.9582	0.0042	0.9582	0.0042	0.9515	0.0071	0.9515	0.0071	0.8569	0.0068	53.453
196.72	0.9559	0.0032	0.9559	0.0032	0.9665	0.0042	0.9665	0.0042	0.9453	0.0037	0.9453	0.0037	0.8650	0.0081	50.833
206.37	0.9622	0.0042	0.9622	0.0042	0.9689	0.0040	0.9689	0.0040	0.9510	0.0037	0.9510	0.0037	0.8615	0.0064	48.458
216.01	0.9596	0.0033	0.9596	0.0033	0.9679	0.0034	0.9679	0.0034	0.9531	0.0029	0.9531	0.0029	0.8677	0.0063	46.294
225.65	0.9639	0.0035	0.9639	0.0035	0.9634	0.0029	0.9634	0.0029	0.9504	0.0034	0.9504	0.0034	0.8712	0.0060	44.316
235.30	0.9625	0.0043	0.9625	0.0043	0.9686	0.0038	0.9686	0.0038	0.9566	0.0022	0.9566	0.0022	0.8730	0.0054	42.500
244.94	0.9699	0.0037	0.9699	0.0037	0.9678	0.0028	0.9678	0.0028	0.9526	0.0033	0.9526	0.0033	0.8753	0.0058	40.826
254.58	0.9694	0.0022	0.9694	0.0022	0.9642	0.0034	0.9642	0.0034	0.9564	0.0024	0.9564	0.0024	0.8707	0.0053	39.280
264.23	0.9682	0.0029	0.9682	0.0029	0.9677	0.0025	0.9677	0.0025	0.9550	0.0031	0.9550	0.0031	0.8678	0.0053	37.847
273.87	0.9716	0.0026	0.9716	0.0026	0.9702	0.0032	0.9702	0.0032	0.9485	0.0025	0.9485	0.0025	0.8693	0.0057	36.514
283.51	0.9755	0.0014	0.9755	0.0014	0.9697	0.0028	0.9697	0.0028	0.9592	0.0047	0.9592	0.0047	0.8773	0.0051	35.272
293.16	0.9710	0.0042	0.9710	0.0042	0.9663	0.0028	0.9663	0.0028	0.9568	0.0030	0.9568	0.0030	0.8759	0.0053	34.112
302.80	0.9726	0.0028	0.9726	0.0028	0.9716	0.0017	0.9716	0.0017	0.9559	0.0025	0.9559	0.0025	0.8795	0.0057	33.025
312.44	0.9737	0.0055	0.9737	0.0055	0.9732	0.0032	0.9732	0.0032	0.9537	0.0057	0.9537	0.0057	0.8853	0.0059	32.006
322.09	0.9685	0.0026	0.9685	0.0026	0.9690	0.0025	0.9690	0.0025	0.9574	0.0038	0.9574	0.0038	0.8828	0.0059	31.048
331.73	0.9685	0.0032	0.9685	0.0032	0.9734	0.0024	0.9734	0.0024	0.9587	0.0036	0.9587	0.0036	0.8928	0.0062	30.145
341.37	0.9741	0.0037	0.9741	0.0037	0.9710	0.0026	0.9710	0.0026	0.9596	0.0032	0.9596	0.0032	0.8880	0.0047	29.294
351.02	0.9767	0.0030	0.9767	0.0030	0.9612	0.0031	0.9612	0.0031	0.9606	0.0019	0.9606	0.0019	0.8829	0.0057	28.489
360.66	0.9723	0.0038	0.9723	0.0038	0.9688	0.0043	0.9688	0.0043	0.9683	0.0043	0.9683	0.0043	0.8898	0.0068	27.727
370.30	0.9648	0.0051	0.9648	0.0051	0.9708	0.0083	0.9708	0.0083	0.9555	0.0042	0.9555	0.0042	0.8877	0.0059	27.005
379.94	0.9707	0.0093	0.9707	0.0093	0.9699	0.0057	0.9699	0.0057	0.9548	0.0050	0.9548	0.0050	0.8831	0.0059	26.320
389.59	0.9757	0.0027	0.9757	0.0027	0.9648	0.0026	0.9648	0.0026	0.9552	0.0059	0.9552	0.0059	0.8955	0.0051	25.668
399.23	0.9724	0.0032	0.9724	0.0032	0.9721	0.0025	0.9721	0.0025	0.9551	0.0031	0.9551	0.0031	0.8905	0.0047	25.048
408.87	0.9776	0.0031	0.9776	0.0031	0.9756	0.0030	0.9756	0.0030	0.9586	0.0030	0.9586	0.0030	0.8958	0.0049	24.457
418.52	0.9744	0.0023	0.9744	0.0023	0.9734	0.0027	0.9734	0.0027	0.9601	0.0046	0.9601	0.0046	0.8940	0.0041	23.894
428.16	0.9681	0.0033	0.9681	0.0033	0.9702	0.0028	0.9702	0.0028	0.9562	0.0022	0.9562	0.0022	0.8959	0.0055	23.356
437.80	0.9756	0.0038	0.9756	0.0038	0.9668	0.0054	0.9668	0.0054	0.9656	0.0075	0.9656	0.0075	0.8900	0.0052	22.841
447.45	0.9796	0.0040	0.9796	0.0040	0.9755	0.0037	0.9755	0.0037	0.9558	0.0029	0.9558	0.0029	0.8876	0.0059	22.349
457.09	0.9739	0.0044	0.9739	0.0044	0.9719	0.0043	0.9719	0.0043	0.9600	0.0033	0.9600	0.0033	0.9000	0.0042	21.878
466.73	0.9750	0.0023	0.9750	0.0023	0.9679	0.0050	0.9679	0.0050	0.9607	0.0051	0.9607	0.0051	0.8998	0.0037	21.425
476.38	0.9786	0.0029	0.9786	0.0029	0.9680	0.0061	0.9680	0.0061	0.9592	0.0053	0.9592	0.0053	0.9050	0.0047	20.992
486.02	0.9715	0.0050	0.9715	0.0050	0.9691	0.0022	0.9691	0.0022	0.9621	0.0041	0.9621	0.0041	0.8961	0.0037	20.575
495.66	0.9698	0.0064	0.9698	0.0064	0.9732	0.0040	0.9732	0.0040	0.9667	0.0020	0.9667	0.0020	0.8993	0.0039	20.175