IIR-SF1

IR transmitting filter

＊You can not use Macro security setting yet. Please refer to "MACRO SETTING"to use this page.

・All data are mean values of various melts.

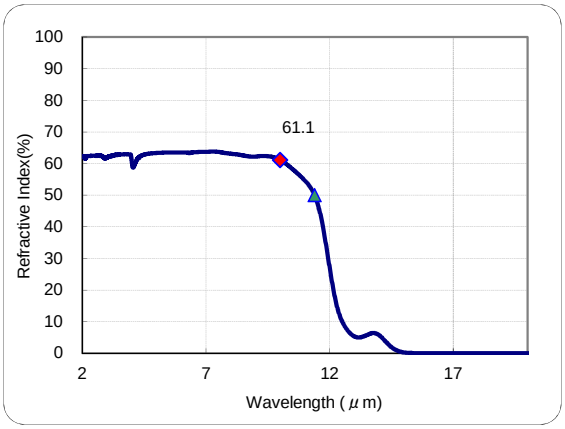
・Change thickness and condition to check variations of data.→

Condition

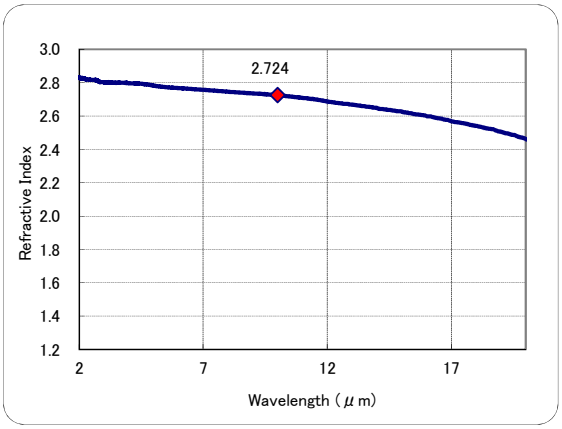
Thickness 2mm

Current data are approximate values.

● Transmittance



● Refractive index



<Meaning of sign>

λ (μ m) :Wavelength

T (%) :External Transmittance

τ :Internal Transmittance

OD :Optical Density

n_m :Refractive Index

k_m :Extinction Coefficient

	λ (nm)	T(%)	τ	OD	n_m	k_m
◆< Set wavelength >	10	61.1	0.992	0.21	2.724	2.076E-05
▲<Transmittance50%>	11.4	50.0	0.965	0.30	2.702	1.114E-04
	-	-	-	-	-	-
d-line(587.56nm)	-	-	-	-	-	-
e-line(546.07nm)	-	-	-	-	-	-

λ (μ m)	T(%)	τ	OD	n_m	k_m
2	62.3	0.992	0.21	2.829	6.275E-07
2.2	62.3	0.991	0.21	2.824	8.063E-07
2.4	62.4	0.992	0.20	2.818	8.059E-07
2.6	62.5	0.992	0.20	2.817	8.751E-07
2.8	62.3	0.987	0.21	2.805	1.452E-06
3	62.0	0.981	0.21	2.802	2.270E-06
3.2	62.5	0.988	0.20	2.802	1.584E-06
3.4	62.8	0.991	0.20	2.799	1.161E-06
3.6	62.9	0.993	0.20	2.800	9.757E-07
3.8	62.9	0.994	0.20	2.799	9.191E-07
4	60.9	0.965	0.22	2.797	5.748E-06
4.2	61.1	0.966	0.21	2.796	5.755E-06
4.4	62.5	0.986	0.20	2.794	2.392E-06
4.6	63.0	0.993	0.20	2.792	1.298E-06
4.8	63.2	0.995	0.20	2.787	9.596E-07
5	63.3	0.995	0.20	2.782	9.503E-07
5.2	63.4	0.995	0.20	2.778	9.925E-07
5.4	63.5	0.995	0.20	2.774	1.019E-06
5.6	63.5	0.995	0.20	2.772	1.134E-06
5.8	63.5	0.994	0.20	2.769	1.307E-06
6	63.5	0.994	0.20	2.767	1.490E-06
6.2	63.5	0.993	0.20	2.766	1.645E-06
6.4	63.5	0.992	0.20	2.763	1.985E-06
6.6	63.6	0.994	0.20	2.761	1.606E-06
6.8	63.7	0.994	0.20	2.759	1.566E-06
7	63.7	0.994	0.20	2.757	1.604E-06
7.2	63.7	0.994	0.20	2.755	1.626E-06
7.4	63.7	0.994	0.20	2.753	1.877E-06
7.6	63.6	0.991	0.20	2.750	2.882E-06
7.8	63.3	0.986	0.20	2.748	4.331E-06
8	63.1	0.983	0.20	2.746	5.479E-06
8.2	62.9	0.980	0.20	2.744	6.572E-06
8.4	62.7	0.976	0.20	2.741	8.077E-06
8.6	62.4	0.972	0.20	2.740	9.878E-06
8.8	62.2	0.968	0.21	2.738	1.141E-05

λ (μ m)	T(%)	τ	OD	n_m	k_m
9	62.2	0.967	0.21	2.736	1.201E-05
9.2	62.4	0.969	0.21	2.734	1.146E-05
9.4	62.4	0.969	0.20	2.731	1.175E-05
9.6	62.2	0.966	0.21	2.729	1.304E-05
9.8	61.8	0.960	0.21	2.727	1.603E-05
10	61.1	0.949	0.21	2.724	2.076E-05
10.2	60.1	0.934	0.22	2.721	2.760E-05
10.4	58.9	0.916	0.23	2.718	3.633E-05
10.6	57.6	0.896	0.24	2.715	4.638E-05
10.8	56.2	0.875	0.25	2.712	5.755E-05
11	54.6	0.851	0.26	2.709	7.037E-05
11.2	52.7	0.823	0.28	2.705	8.676E-05
11.4	49.8	0.780	0.30	2.703	1.128E-04
11.6	44.9	0.704	0.35	2.697	1.618E-04
11.8	36.9	0.582	0.43	2.693	2.542E-04
12	27.1	0.431	0.57	2.687	4.023E-04
12.5	10.1	0.161	0.99	2.676	9.080E-04
13	5.3	0.084	1.28	2.668	1.280E-03
14	5.7	0.090	1.24	2.648	1.340E-03
15	0.2	0.004	2.64	2.627	3.359E-03
16	1.8E-02	2.7E-04	3.75	2.600	5.221E-03
17	3.5E-02	0.001	3.45	2.569	5.085E-03
18	2.2E-02	3.4E-04	3.65	2.541	5.717E-03
19	4.6E-02	0.001	3.35	2.505	5.517E-03
20	4.8E-02	0.001	3.32	2.462	5.769E-03
21	0.1	0.001	3.15	2.405	5.745E-03
22	0.1	0.001	3.00	2.331	5.740E-03
23	4.9E-02	0.001	3.37	2.208	6.816E-03
24	0.1	0.002	2.92	2.143	6.151E-03
25	0.6	0.008	2.24	2.170	4.834E-03

Measurement device is Spectrum100 FT-IR.(PerkinElmer)

Date14/12/09

ISUZU GLASS