



INSTITUT PRO TESTOVÁNÍ A CERTIFIKACI, a. s.

třída Tomáše Bati 299, Louky, 763 02 Zlín, Czech Republic

Testing Laboratory

Testing laboratory * Calibration laboratory * Product certification body * Management systems certification body
Inspection body * Authorized body * Notified body

Number of pages: 7

Page : 1 ref. No. 472120319-01

TEST REPORT

ref. No. 472120319-01

Client: JBAcrylics s.r.o.
Company registration number: 29523818

Address: Nové sady 988/2, 602 00 Brno - Staré Brno, Czech Republic

Sample: **Acrylic boxes from JBAcrylics**
see sample description on the page No. 2 of this document

Sample received on: April 27, 2026

Tested: May 15, 2026

Report elaborated by: Ing. Ludmila Zálešáková

Place and date of issue: Zlín, May 18, 2026

Ing. Jiří Samsonek, Ph.D.
Head of Testing Laboratory

Note: The results given in this Test Report apply only to the sample tested by our laboratory!
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Description and identification of samples:
Table No. I - Sample description and identification

ITC's identification number	Sample identification by the client	Description of submitted sample
472120319/01	Acrylic boxes from JBAcrylics	The test sample: in the form of a plate (40x40x5 mm) - see the fig. No. 1


Fig. 1 - Sample No. 472120319/01
Sampling method used:

The test sample was collected and supplied to the laboratory by the client. The laboratory is not responsible for this way of sampling. The results apply to the sample received.

Work requested:

Measurement of total transmittance (220 nm -780 nm).

Testing method used:

Measurement of total transmittance according to instruction manual for Integrating Sphere Attachment ISR-2600 Plus.

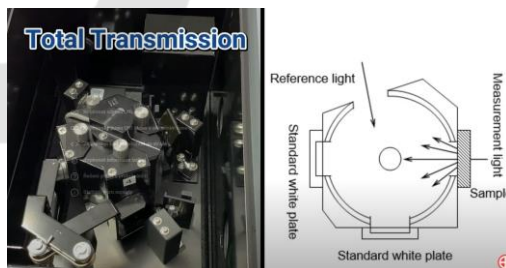
Test conditions:

Instrument: Shimadzu UV-2600 UV-Vis Spectrophotometer, Integrating Sphere Attachment ISR-2600 Plus

Date of validity of the calibration: 20.12.2027

- Measurement Wavelength Range: 220 nm – 780 nm
- Measuring Mode: Transmittance
- Slit Width: 5.0 nm
- Sampling Pitch: 5.0 nm

The test results are presented in the form of a graphical record of the dependence of transmittance on wavelength and also in tabular form with transmittance values with a step of 5 nm.


Fig. 2: Measurement of total transmittance

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The laboratory is not responsible for information received from customer, which could have influence on the validity of the results. Further information required by the standard/standards and not given in this Test Report are available at a request at the Laboratory.

Testing laboratory:

Workplace no. 1 - třída Tomáše Bati 299, Louky, 763 02 Zlín

Test results:

The test results are given in the following table:

Table No. II: Test results of total transmittance

Wavelength [nm]	Transmittance [%]				Average [%]	Uncertainty ¹⁾
	1.	2.	3.	4.		
220	0,0421	0,0770	0,0577	0,0398	0,0542	0,0172
225	0,0566	0,0576	0,0370	0,0603	0,0529	0,0108
230	0,0494	0,0674	0,0346	0,0372	0,0472	0,0150
235	0,0390	0,0364	0,0413	0,0311	0,0370	0,0044
240	0,0346	0,0336	0,0275	0,0313	0,0318	0,0032
245	0,0317	0,0236	0,0249	0,0224	0,0257	0,0042
250	0,0189	0,0161	0,0239	0,0094	0,0171	0,0061
255	0,0179	0,0188	0,0211	0,0168	0,0187	0,0019
260	0,0207	0,0231	0,0318	0,0158	0,0229	0,0067
265	0,0235	0,0254	0,0219	0,0178	0,0222	0,0033
270	0,0315	0,0257	0,0287	0,0283	0,0286	0,0024
275	0,0249	0,0237	0,0327	0,0321	0,0284	0,0047
280	0,0279	0,0382	0,0361	0,0366	0,0347	0,0047
285	0,0294	0,0360	0,0300	0,0286	0,0310	0,0034
290	0,0279	0,0347	0,0314	0,0300	0,0310	0,0029
295	0,0254	0,0331	0,0285	0,0286	0,0289	0,0032
300	0,0264	0,0277	0,0327	0,0276	0,0286	0,0029
305	0,0347	0,0307	0,0336	0,0339	0,0332	0,0019
310	0,0277	0,0265	0,0194	0,0227	0,0241	0,0038
315	0,0233	0,0224	0,0229	0,0164	0,0213	0,0033
320	0,0170	0,0194	0,0167	0,0148	0,0170	0,0019
325	0,0131	0,0141	0,0160	0,0130	0,0141	0,0014
330	0,0076	0,0094	0,0105	0,0101	0,0094	0,0013
335	0,0092	0,0074	0,0097	0,0092	0,0089	0,0010
340	0,0057	0,0060	0,0050	0,0068	0,0059	0,0008
345	0,0033	0,0056	0,0035	0,0055	0,0045	0,0012
350	0,0031	0,0020	0,0042	0,0044	0,0034	0,0011
355	0,0044	0,0018	0,0021	0,0026	0,0027	0,0012
360	0,0027	0,0018	0,0016	0,0017	0,0020	0,0005
365	0,0036	0,0033	0,0033	0,0023	0,0031	0,0006
370	0,0046	0,0033	0,0035	0,0021	0,0034	0,0010
375	0,0309	0,0306	0,0296	0,0305	0,0304	0,0008
380	0,2678	0,2673	0,2650	0,2662	0,2666	0,0055

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Table No. II: Test results of total transmittance – continuation

Wavelength [nm]	Transmittance [%]				Average [%]	Uncertainty ¹⁾
	1.	2.	3.	4.		
385	6,3172	6,3873	6,2957	6,3195	6,3299	0,1327
390	30,9430	30,9580	30,8592	30,9095	30,9174	0,6199
395	61,0347	61,0731	60,8953	60,9754	60,9946	1,2223
400	79,5170	79,5851	79,5084	79,4816	79,5230	1,5911
405	87,4656	87,5077	87,4178	87,4846	87,4689	1,7498
410	90,3454	90,4589	90,3574	90,3394	90,3753	1,8084
415	91,4884	91,5120	91,4282	91,4773	91,4765	1,8299
420	91,8261	91,8323	91,7976	91,8165	91,8181	1,8364
425	91,9675	91,9868	91,9564	91,9242	91,9587	1,8394
430	92,0482	92,0970	91,9992	91,9947	92,0348	1,8413
435	92,1433	92,1032	92,0504	92,1013	92,0996	1,8424
440	92,1885	92,1459	92,0844	92,0523	92,1178	1,8434
445	92,1861	92,1799	92,0959	92,0782	92,1350	1,8435
450	92,1704	92,0966	92,0767	92,0769	92,1052	1,8426
455	92,1554	92,1807	92,1050	92,1230	92,1410	1,8431
460	92,2097	92,1698	92,1984	92,1511	92,1823	1,8438
465	92,2774	92,2405	92,2232	92,1967	92,2345	1,8450
470	92,2555	92,2341	92,2283	92,1463	92,2161	1,8449
475	92,2595	92,2297	92,1748	92,1729	92,2092	1,8447
480	92,2943	92,2398	92,1977	92,2227	92,2386	1,8452
485	92,2933	92,2940	92,2685	92,2369	92,2732	1,8457
490	92,2614	92,2414	92,2232	92,2139	92,2350	1,8448
495	92,246	92,2222	92,2041	92,2116	92,2210	1,8445
500	92,2016	92,2149	92,2520	92,2255	92,2235	1,8446
505	92,2281	92,2019	92,2035	92,2025	92,2090	1,8442
510	92,2528	92,2291	92,1861	92,2173	92,2213	1,8446
515	92,2134	92,2364	92,1726	92,1923	92,2037	1,8443
520	92,2811	92,2419	92,1667	92,2354	92,2313	1,8452
525	92,2794	92,2546	92,2474	92,2936	92,2688	1,8455
530	92,2263	92,2515	92,2408	92,2310	92,2374	1,8448
535	92,2807	92,2580	92,2686	92,2381	92,2614	1,8453
540	92,2753	92,2924	92,2322	92,2391	92,2598	1,8454
545	92,2729	92,2658	92,2442	92,2168	92,2499	1,8452
550	92,2753	92,2897	92,2632	92,2630	92,2728	1,8455
555	92,2551	92,3289	92,2969	92,2524	92,2833	1,8460
560	92,1623	92,2372	92,2639	92,1732	92,2092	1,8448
565	92,3539	92,2459	92,2636	92,2726	92,2840	1,8463
570	92,3424	92,2719	92,2694	92,2222	92,2765	1,8462
575	92,3655	92,3109	92,2722	92,2267	92,2938	1,8468
580	92,3237	92,2972	92,2543	92,2940	92,2923	1,8461
585	92,3614	92,2771	92,2738	92,2634	92,2939	1,8464
590	92,3451	92,2707	92,2236	92,2467	92,2715	1,8462
595	92,3542	92,3286	92,2843	92,3332	92,3251	1,8467
600	92,3874	92,3149	92,2930	92,2703	92,3164	1,8470

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Wavelength [nm]	Transmittance [%]				Average [%]	Uncertainty ¹⁾
	1.	2.	3.	4.		
605	92,3696	92,2948	92,3005	92,2919	92,3142	1,8467
610	92,4142	92,3728	92,3669	92,3112	92,3663	1,8478
615	92,3983	92,3491	92,3369	92,3245	92,3522	1,8473
620	92,4259	92,4205	92,4137	92,3799	92,4100	1,8483
625	92,3714	92,3989	92,3413	92,4000	92,3779	1,8478
630	92,4588	92,4488	92,4052	92,4134	92,4316	1,8488
635	92,4713	92,4371	92,3955	92,3830	92,4217	1,8489
640	92,4728	92,4671	92,4662	92,4331	92,4598	1,8493
645	92,5411	92,4940	92,4956	92,4452	92,4940	1,8503
650	92,5247	92,4981	92,4834	92,4275	92,4834	1,8501
655	92,5546	92,5091	92,4615	92,5128	92,5095	1,8506
660	92,5250	92,4829	92,4712	92,4794	92,4896	1,8499
665	92,5165	92,4763	92,4924	92,4366	92,4805	1,8499
670	92,5767	92,5537	92,5147	92,4935	92,5347	1,8511
675	92,5564	92,5287	92,4895	92,4408	92,5039	1,8508
680	92,5785	92,4991	92,5288	92,4960	92,5256	1,8509
685	92,5793	92,5237	92,4813	92,5289	92,5283	1,8510
690	92,5776	92,5355	92,5144	92,4920	92,5299	1,8510
695	92,5618	92,5697	92,5136	92,5268	92,5430	1,8511
700	92,6534	92,6154	92,5419	92,5528	92,5909	1,8526
705	92,5749	92,5429	92,5209	92,4741	92,5282	1,8510
710	92,5303	92,4835	92,5079	92,5054	92,5068	1,8502
715	92,5511	92,4780	92,4730	92,4575	92,4899	1,8503
720	92,5192	92,4593	92,4071	92,4093	92,4487	1,8497
725	92,3678	92,3185	92,3462	92,3440	92,3441	1,8470
730	92,2755	92,2518	92,2521	92,2739	92,2633	1,8453
735	92,3472	92,2959	92,2654	92,2922	92,3002	1,8463
740	92,3867	92,2963	92,3389	92,3291	92,3378	1,8471
745	92,4779	92,3785	92,3627	92,3840	92,4008	1,8488
750	92,5449	92,4895	92,4341	92,4548	92,4808	1,8503
755	92,6117	92,5923	92,5057	92,5050	92,5537	1,8519
760	92,6494	92,5750	92,5221	92,5662	92,5782	1,8523
765	92,6006	92,5601	92,5274	92,4319	92,5300	1,8520
770	92,6009	92,5326	92,4871	92,3991	92,5049	1,8520
775	92,5595	92,5387	92,4808	92,4716	92,5127	1,8508
780	92,5415	92,5305	92,5017	92,4788	92,5131	1,8505

Note to Table II:¹⁾ The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of $k=2$, providing a level of confidence of approximately 95%.

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Graphical representation of results

The test results are presented in the form of a graphical record of the dependence of transmittance on wavelength. Figure 2 in the range (220-780) nm, Figure 3 in the range UVA (315-400) nm and Figure 4 in the range UVB (280-315) nm

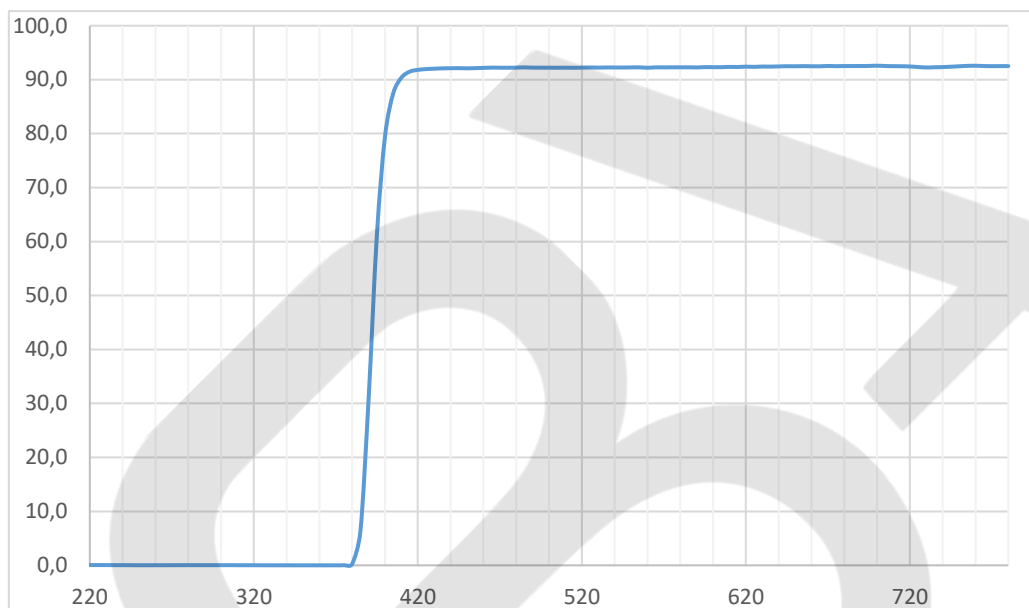


Fig. 2: Transmittance of sample 472120319/01: (220 - 780) nm

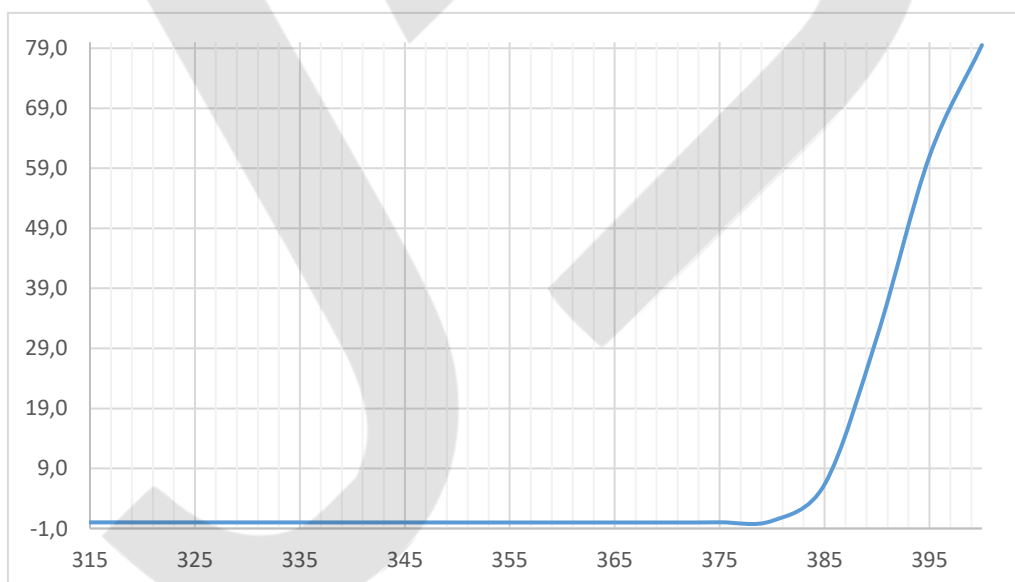


Fig. 3: Transmittance of sample 472120319/01: UVA (315 - 400) nm

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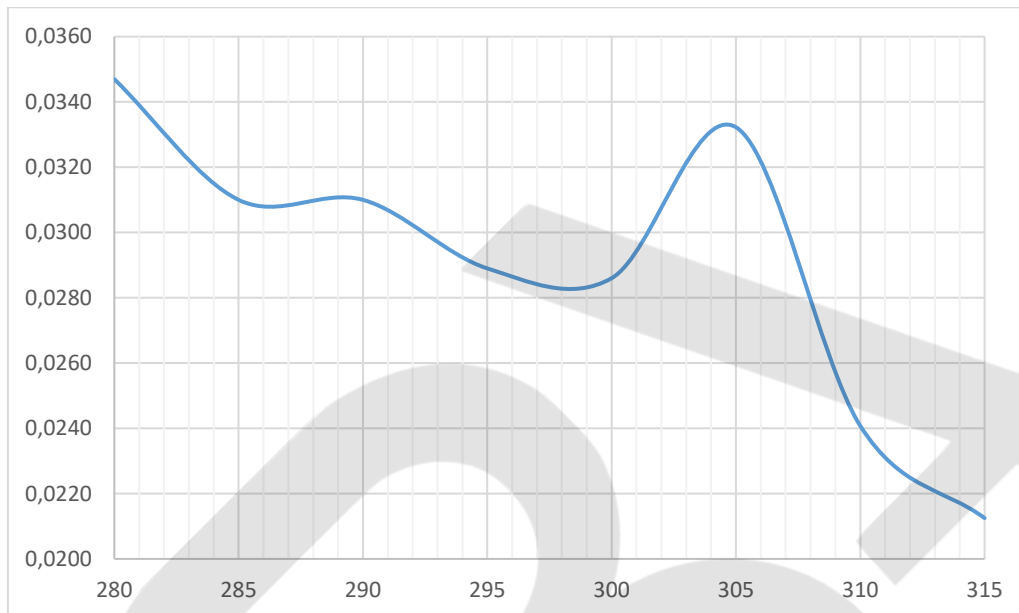


Fig. 4: Transmittance of sample 472120319/01: UVB (280 - 315) nm

Comment on the results of the tests:

In the UVB range (280–315 nm), the sample exhibits very low transmittance, indicating that it is highly effective at absorbing or blocking the most biologically harmful portion of ultraviolet radiation. The material therefore provides effective protection against UVB radiation.

Low transmittance values are also observed in the UVA range (315–400 nm), up to approximately 380–390 nm. Only near the edge of the visible spectrum does the transmittance increase significantly. The material therefore provides effective protection across most of the UVA range.

This spectral profile is characteristic of materials designed for UV protection while maintaining optical transparency.

Evaluation and comment on the results of the tests carried out by:

Dipl. Ing. Ludmila Zálešáková

Dipl. Ing. Daniel Vít
Head of the analytical and microbiology laboratory

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