

Technical Datasheet (PVC OV BPU800)

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| APPLICATION: | This PVC TRANSPARENT COATED OVERLAY is the results of the selection and combination of high quality resins along with a specific glue which make this material highly versatile and suitable for the production of all kind of cards. The special glue used for coating this overlay guarantee and extra strength during the lamination along with PVC Core sheets printed with all kind of UV inks and Silkscreen inks. A special treatment is also done on this material in order to reach a very clear and smooth effect after lamination and resistance to scratches. | | |
| APPEARANCE: | TRANSPARENT, BOTH SIDES MATT. | | |
| THICKNESS (μm) | 40 - 250 μm | | |
| THICKNESS TOLERANCE ON 100% OF READINGS | Between 40 - 80 μm | $\pm 10 \%$ | |
| | Between 90- 150 μm | $\pm 7 \%$ | |
| | Between 160- 250 μm | $\pm 4 \%$ | |
| PROPERTIES | TEST METHOD | RESPONSE VALUE | |
| VICAT SOFTENING POINT (5Kg Load in oil as stacked samples) | UNI EN ISO 306 VSTB50 | $72 \pm 2 \text{ }^\circ\text{C}$ | |
| DENSITY | ISO 1183-1 | $1.36 \pm 0.04 \text{ g/cm}^3$ | |
| SURFACE TENSION | ISO 8296 | Best Printing side $\geq 40 \text{ mN/m}$ | |
| | | Reverse side $\geq 37 \text{ mN/m}$ | |
| SURFACE ROUGHNESS | ASIA Tech Internal Test | Ra (μm) | Between 0.7~1.8 μm |
| | | Rz (μm) | Between 4~12 μm |
| GLOSSINESS DEGREE in % | ASIA Tech Internal Test | Thickness $\leq 300\mu\text{m}$ | $\leq 45 \%$ |
| | | Thickness $\geq 310\mu\text{m}$ | $\leq 50 \%$ |
| TENSILE STRENGTH | UNI EN ISO 527-3/2/50 | CD MPa \geq | 40 N/mm^2 |
| | | MD Mpa \geq | 42 N/mm^2 |
| HEAT SHRINKAGE in % (140\pm2 $^\circ\text{C}$ for 10 Minutes) | ASIA Tech Internal Test | Thickness 40-80 μm | MD \geq -25 CD \leq +13% |
| | ASIA Tech Internal Test | Thickness 90-150 μm | MD \geq -20 CD \leq +10% |
| | ASIA Tech Internal Test | Thickness 160-250 μm | MD \geq -6 CD \leq +3 % |
| TENSILE IMPACT STRENGTH | ISO 8256 | $\geq 500 \text{ HJ/m}^2$ | |

* **Shelf Life:** 2 years in the original packaging

** **Recommended Storage Conditions:** Between 15~30 $^\circ\text{C}$ and humidity between 40~60%.