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**RESEARCH OF QUALITY OF LASER ENGRAVING FLEXOGRAPHIC PRINTING PLATES**

**L. Ya. Mayik1, V. Е. Nykyruy1, N. D. Lotoshynska2**

*1Ukrainian Academy of Printing,*

*19, Pid Holoskom St., Lviv, 79020, Ukraine*

*ludmila\_maik@meta.ua*

*2Lviv Polytechnic National University,*

*12, Stepan Bandera St., Lviv, 79000, Ukraine*

***Research Methodology.*** *A special test-scale with raster fields, groups of negative and positive shaded elements and text has been used to study digital flexographic photo-polymer plates. Using a software and hardware complex, we carry out the analysis of re­production graphic and typographic-technical parameters of plates and imprints of flexographic printing technique. The device automatically takes pictures, analyses, cal­cu­lates the quality indicators, archives photos, etc.*

***Results.*** *With the help of the software and hardware complex, the study of the process of making plates and printing from flexographic printing plates has been carried out, with the determination of a number of parameters of the selected areas of the plate and the imprint, in particular the number of selected areas, the average area, the average square deviation, the average diameter of the area, the average square deviation of the diameter, the minimum area, the maximum area, the average distance between the zones in μm, the distance between the zones vertically, the distance between the zones horizontally, the angle of inclination of the screen structure line, the average distance between the rows of zones, the deviation of the area of the dots of a row from the average value in the graphical form, etc.*

***Novelty.*** *The novelty of the results obtained is that the qualitative and quantitative in­di­ca­tors of quality of the manufactured digital flexographic plates and imprints from them ha­ve be­en determined, which as a rule are not presented in the standard technical descriptions.*

***Practical Significance*** *lies in the fact that the results of the research can determine the technological parameters of the forming and printing processes of flexographic printing technique more precisely and qualitatively.*