The recipe detects pores in a polymer divider. Pores are labeled individually to measure area, length, width, equivalent diameter etc. The labeled pores are colored according to their area.

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| **Step** | **Name** | **Purpose** | **Sensitive to spatial resolution** |
| 1 | Reference | Reference image. |  |
| 2 | Non-Local Means Filter | Allows to remove the noise while preserving structures of interest. | Yes |
| 3 | Median Filter | The median filter is intended to remove salt and pepper noise which is not removed by the previous filter. | Yes |
| 4 | Auto\_Threshoding | Based on the Otsu method, the Auto-Thresholding allows to separate the porosities from the matrix. |  |
| 5 | Reference change | Median filter |  |
| 6 | Gaussian filter | Allows to remove high frequency information, thus to ease Top-Hat operation to come up. | Yes |
| 7 | Top-Hat | This morphological operation allows to extract separations between porosities. | Yes |
| 8 | Reference change | Auto threshold |  |
| 9 | AND NOT Image | Allows to subtract porosity separations from porosity thresholding. |  |
| 10 | Binary Smoothing | To get smoother contours. |  |
| 11 | Fill Holes | To fill holes in porosities generated from step 9. |  |
| 12 | Labeling | To get one label per porosity. |  |