Polytris patented technology is based on the changes in the absorption spectra of polymer materials caused by coherent IR laser radiation. This method is based on the phenomenon revealed by the experts of the company and the College of Judea and Samaria. It was demonstrated that IR laser irradiation causes irreversible changes in the absorption spectra of thermoplastic and thermoplastic materials. These changes could be promoted under the conditions of resonance absorption of the laser radiation. Such changes could be revealed with mini-FTIR spectrometer.

Marking according the proposed technologies does not cause any visible change in the marked polymer product (for example polymer film used for passport packaging).

Polymers traditionally used for documents packaging (PE, PP) could be marked by the proposed method, thus no changes in the production facilities will be necessary.