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(71) Applicant: **DOW GLOBAL TECHNOLOGIES LLC**  
[US/US]; 2040 Dow Center, Midland, MI 48674 (US).

(72) Inventors: **STOILJKOVIC, Aleksandar**; Am Gulmen-  
bach 9, 8820 Waedenswill (CH). **ULTSCH, Stefan**; Geis-  
senstrasse 9, 8712 Staefa (CH). **WU, Xiaosong**; 5711 Pearl  
Pass Court, Sugarland, TX 77479 (US).

(74) Agent: **BARTHEL, Ted, A.**; Whyte Hirschboeck Dudek  
S.C., 555 East Wells Street, Suite 1900, Milwaukee, WI  
53202 (US).

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(54) Title: PRODUCTION OF TPO ROOFING MEMBRANE VIA COUNTER-ROTATING EXTRUSION

(57) Abstract: The present disclosure is directed to a process for producing thermoplastic polyolefin roofing membrane. The process includes directly adding components of a high-load flame retardant TPO formulation to a counter-rotating twin screw extruder. The process includes extruding the formulation with counter-rotation of the twin screws and forming a TPO roofing membrane having a tensile strength of greater than 10 MPa and a flame retardance of rating of classification D as measured in accordance with EN ISO 1 1925-2, surface exposure test.



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