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(71) Applicant: LANXESS INC. [CA/CA]; 1265 Vidal Street
South, Sarnia, Ontario N7T 7M2 (CA).

(72) Inventors: SIEGERS, Conrad; 34 Gretna Green, London,
Ontario N6G 1X1 (CA). STEEVENSZ, Richard; 389 Ju-
lie Court, Box 1396, Corruna, Ontario N0N 1G0 (CA).

(74) Agent: BRUNET, Robert A.H.; Brunet & Co. Ltd., 401
Bay Street, Suite 1600, Toronto, Ontario M5H 2Y4 (CA).

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(54) Title: BUTYL RUBBER IONOMER-THERMOPLASTIC GRAFT COPOLYMERS AND METHODS FOR PRODUCTION THEREOF

(57) Abstract: The present invention is directed to the functionalization of butyl rubber ionomer and optionally the grafting of poly-
amide to halobutyl rubber ionomers. Specifically, disclosed are methods and products resulting therefrom for creating functionalized
ionomers and grafting polyamide to halobutyl ionomers via reactive extrusion. The process comprises reacting a halobutyl polymer
with at least one nitrogen and/or phosphorous based nucleophile to provide a halobutyl ionomer comprising conjugated diene units;
grafting of an amine-reactive dienophile to said ionomer to form a functionalized ionomer; and optionally blending the resulting
functionalized ionomer with polyamide.



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