# DEFENSIVE PUBLICATION

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**T912,018**

# PROCESS FOR PREPARING A BONDED ARTICLE AND PRODUCT THEREOF

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**Continuation-in-part of application Ser. No. 280,889, Aug. 15, 1972. This application Jan. 10, 1973, Ser. No. 322,687**

**Int. Cl. C09j *5/00;* B32b *15/08***

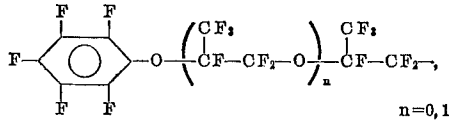
**U.S. Cl. 156—333**

**No Drawing. 16 Pages Specification**

A process for producing a laminate of a metal selected from the group consisting of aluminum, copper, iron, titanium, nickel and alloys thereof with a perfluorinated elastomeric polymer prepared by polymerizing the following monomers:

$CF_2{=}CF_2$, $CF_2{=}CFOCF_3$, and $CF_2{=}CFOR_f$ wherein $R_f$ is selected from the group consisting of

(1)



n=0, 1

(2)

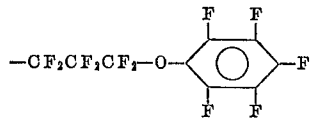
$-(CF_2)_n-X$ X=CN, COF, $CO_2H$, $CO_2R_1$, $CO_2M$, or $CONR_2R_3$
M=alkali metal
$R_1$=alkyl radical of $C_1$—$C_{10}$
$R_2$, $R_3$=$R_1$ or hydrogen or combinations thereof
n=2-12,

(3)

$-CF_2CFY-\left(OCF_2CFY\right)_n-OCF_2CFR'_fSO_2M'$

$R'_f$=perfluoroalkyl of $C_1$—$C_{10}$
Y=F, $CF_3$,
n=1, 2
M'=F, OH, $NH_2$, OMe where Me=alkali metal or quaternary ammonium or

(4)



which comprises coating said metal with an adhesive, placing said perfluorinated polymer, in the uncured state, on said adhesive, thereby forming an assembly, applying pressure to said assembly, heating the assembly to a temperature of about 170 to 250° C. for a period of 10 to 240 minutes, reducing the temperature to about ambient to 100° C., reducing said pressure to about ambient and recovering a laminate of said metal, said adhesive and said polymer.

The resulting product may be used as a solvent-resistant lining for tank cars or formed into a roll for various purposes such as use as a tin plate roller.