

## Title (en)

Multilayer Clear Over Color Polyolefin Sheets and Layered Backing Structure

## Title (de)

Mehrschichtige Klar-über-Farbe-Polyolefinblätter und geschichtete Stützstruktur

## Title (fr)

Feuilles de polyoléfine multicouche transparentes sur couleur et structure de support laminée

## Publication

**EP 2177354 A8 20100602 (EN)**

## Application

**EP 09171597 A 20090504**

## Priority

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- US 5046508 P 20080505

## Abstract (en)

[origin: WO2009137401A1] A multilayer structure includes a clear polyolefin layer, a colored polyolefin layer, and a random polyolefin backing layer. The colored and backing layers are coextruded and are permanently bonded at a layer interface, which is exclusive of an adhesive. The structure has a DOI of 70 or greater and passes a gravelometer impact test per the GM9508P standard, with a 10 pint load, at a -30°C temperature, and at an impact angle of 30 degrees. Among other uses, the structures are appropriate for use as body panels in the motor vehicle industry. The structures display a "class A" finish and meet a variety of requirements for durability and weatherability. An ABA structured backing layer and a method of making it are also described herein.

## IPC 8 full level

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## CPC (source: EP US)

**B29C 48/022** (2019.01 - EP US); **B29C 48/17** (2019.01 - EP US); **B29C 48/21** (2019.01 - EP US); **B29C 51/002** (2013.01 - EP US); **B29C 51/02** (2013.01 - US); **B29C 51/14** (2013.01 - EP US); **B32B 27/08** (2013.01 - US); **B32B 27/20** (2013.01 - EP US); **B32B 27/32** (2013.01 - EP US); **B32B 27/327** (2013.01 - EP US); **B60R 13/02** (2013.01 - EP US); **C08J 5/18** (2013.01 - US); **C08K 5/053** (2013.01 - EP US); **C08K 5/20** (2013.01 - EP US); **B29C 48/08** (2019.01 - EP US); **B29K 2023/00** (2013.01 - US); **B29K 2023/14** (2013.01 - US); **B29K 2105/0032** (2013.01 - US); **B29K 2105/253** (2013.01 - US); **B29K 2509/00** (2013.01 - US); **B29K 2623/14** (2013.01 - US); **B29K 2995/0089** (2013.01 - US); **B29K 2995/0097** (2013.01 - US); **B29L 2031/3005** (2013.01 - US); **B32B 2250/03** (2013.01 - EP US); **B32B 2250/24** (2013.01 - EP US); **B32B 2250/242** (2013.01 - US); **B32B 2250/40** (2013.01 - EP US); **B32B 2270/00** (2013.01 - EP US); **B32B 2272/00** (2013.01 - EP US); **B32B 2274/00** (2013.01 - EP US); **B32B 2307/4026** (2013.01 - US); **B32B 2307/406** (2013.01 - US); **B32B 2307/414** (2013.01 - US); **B32B 2307/558** (2013.01 - US); **B32B 2307/584** (2013.01 - US); **B32B 2307/738** (2013.01 - EP US); **B32B 2605/00** (2013.01 - EP US); **C08J 2323/14** (2013.01 - US); **C08J 2423/06** (2013.01 - US); **Y10T 156/1002** (2015.01 - EP US); **Y10T 428/24967** (2015.01 - EP US); **Y10T 428/26** (2015.01 - EP US); **Y10T 428/269** (2015.01 - EP US); **Y10T 428/31913** (2015.04 - EP US)

## Cited by

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## Designated contracting state (EPC)

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**US 2009042704 W 20090504**; EP 09171597 A 20090504; EP 09711523 A 20090504; EP 12156894 A 20090504; EP 12171722 A 20090504; EP 14182245 A 20090504; US 201113219270 A 20110826; US 201514841011 A 20150831; US 201615005119 A 20160125; US 54894609 A 20090827; US 54895409 A 20090827