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(54) Title: MULTILAYER FILMS SUITABLE FOR USE IN THERMOFORMING APPLICATIONS

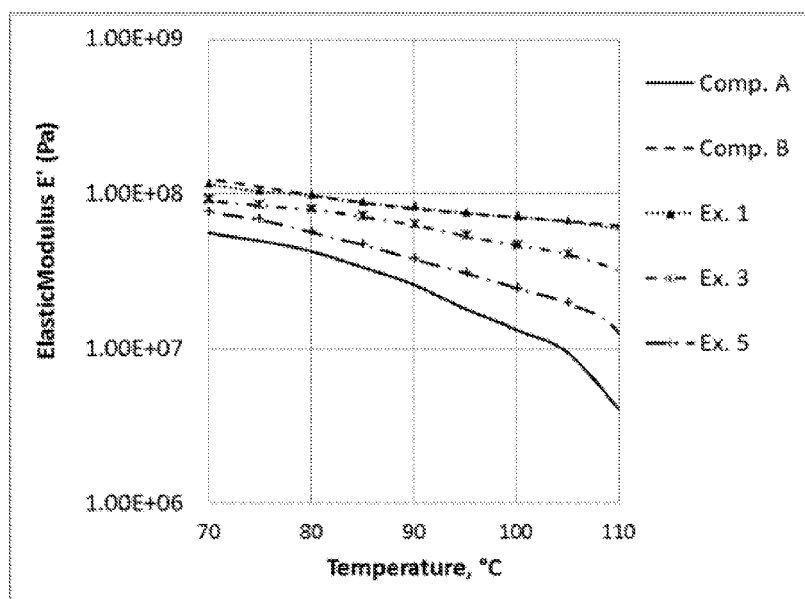


Figure 1

(57) **Abstract:** The present invention provides multilayer films. In some embodiments, multilayer films of the present invention are desirable for use in thermoforming applications. In one aspect, a multilayer film comprises a first layer comprising polypropylene, polyethylene, or blends thereof, a second layer comprising polypropylene, polyethylene, or blends thereof, and a third layer between the first layer and the second layer, the third layer comprising polypropylene, polyethylene, or blends thereof, wherein at least one of the layers further comprises a cyclic olefin copolymer and wherein the multilayer film comprises at least 1 weight percent and less than 5 weight percent cyclic olefin copolymer based on the total weight of the film.



SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

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According to International Patent Classification (IPC) or to both national classification and IPC		
B. FIELDS SEARCHED Minimum documentation searched (classification system followed by classification symbols) B32B B65D		
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched		
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) EPO-Internal, WPI Data		
C. DOCUMENTS CONSIDERED TO BE RELEVANT		
Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
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☒ Further documents are listed in the continuation of Box C. ☒ See patent family annex.		
* Special categories of cited documents : "A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier application or patent but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art "&" document member of the same patent family		
Date of the actual completion of the international search 9 June 2017		Date of mailing of the international search report 30/06/2017
Name and mailing address of the ISA/ European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Fax: (+31-70) 340-3016		Authorized officer Derz, Thomas

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