

Title (en)

Paper product prepared with structured latex particles having reinforcing and opacity characteristics and process for preparing the same.

Title (de)

Papierprodukt, hergestellt mit strukturierten Latexteilchen mit verstärkenden und opaken Eigenschaften und Verfahren zu seiner Herstellung.

Title (fr)

Produit papetier préparé avec des particules de latex structurées améliorant la solidité et l'opacité, et procédé de préparation.

Publication

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Application

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Priority

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Abstract (en)

This invention relates to a paper product, especially light weight papers, prepared with a structured latex particle having opacity and reinforcing characteristics comprising a core region having a light scattering characteristic and a Tg of 80 DEG C or higher and a shell region of 25 DEG C or lower. The structured latex particle provides opacity to the paper without adversely affecting its mechanical strength.

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IPC 8 full level

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CPC (source: EP)

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Citation (search report)

- [Y] US 3897300 A 19750729 - KOHNE JR HARRY F, et al
- [Y] US 4613633 A 19860923 - SEKIYA MASAYOSHI [JP], et al
- [A] US 4282060 A 19810804 - MASLANKA WILLIAM W, et al
- [A] TAPPI, vol. 64, no. 4, April 1981, pages 135-136, Atlanta, Georgia, US; B. ALINCE et al.: "Light-scattering of filled sheets: The combined effect of pigment size and fiber debonding"

Cited by

EP0764741A3; EP0753530A3; US5925704A; EP0959176A1; WO2013122756A1; US9206552B2; JPH11349839A

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