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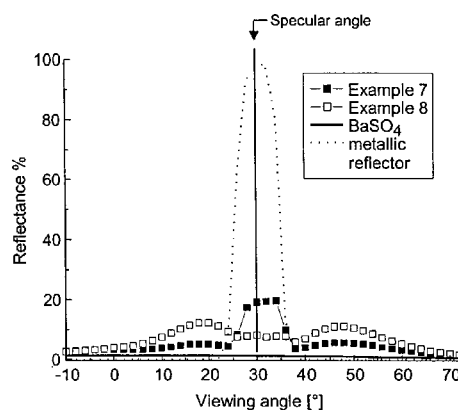
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(54) Title: BRIGHT AND WHITE OPTICAL FILM



Reflectance versus viewing angle for Examples 7 and 8 when illuminated under -30° with respect to the normal

(57) **Abstract:** The invention relates to optical films and coatings and more specifically to a film or coating acting as a diffuse reflector or a diffuser, which is formed of a monomer-corrugated film or coating, which, when illuminated with CIE standard illuminant D65 under a selected direction has the property that within a desired angular range of observation of at least five degrees the difference in the CIE chromaticity coordinates (x, y) of said diffuse reflector or diffuser and of standard white BaSO₄ is not more than 0.05 and the gain in brightness compared to standard white BaSO₄ is not less than two. Diffusers and reflectors according to the invention are capable to redirect the transmitted or reflected incident light into a desired off-specular viewing cone whose shape is defined by the groove topology. The sizes (both grooves period and height), the vertical profile of the corrugations as well as their distributions and volume fraction can be adjusted via the MC-process. It can be used to control the spatial distribution of transmitted and reflected light and to achieve a desired state of polarization and whiteness.



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