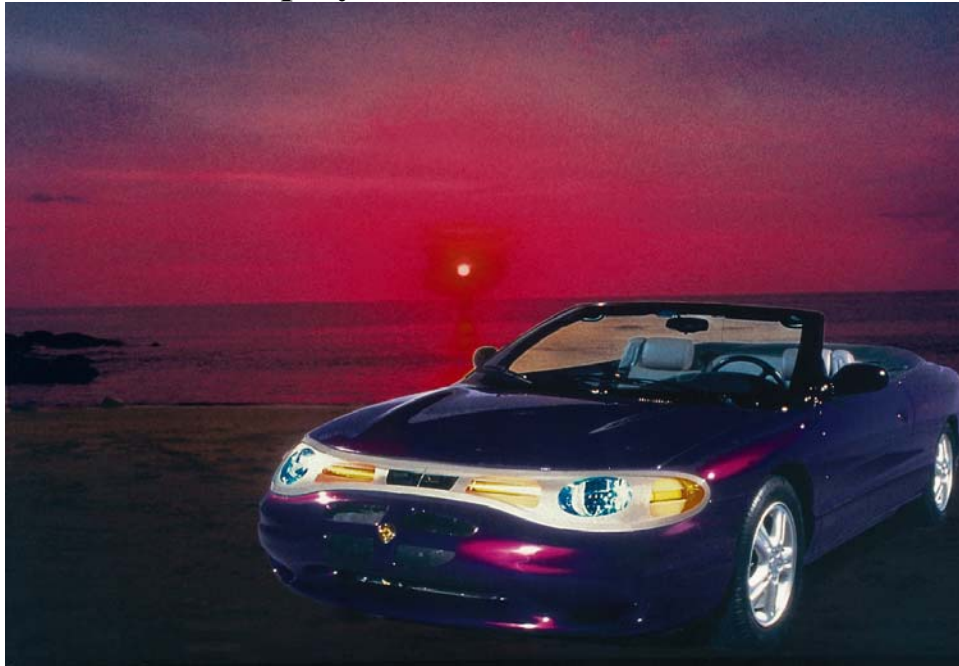




Teonex[®] PEN *polyester film*

Only by DuPont Teijin Films

Teonex[®] PEN polyester film for Automotive HID Lamps



Application Description

High Intensity Discharge (HID) lamps for automotive headlights provide a higher luminous efficiency and consume less energy than conventional halogen lamps. The operating life of a Xenon lamp lasts practically the entire life-time of the vehicle. A high voltage pulse ignites the HID lamp and a film capacitor is an essential component of this electrical ignition circuit.

Benefits of Teonex[®] in use

- Superior thermal resistance
- Resistance to vibration
- Dimensional stability

DuPont Teijin Films Material selected and why

Teonex[®] PEN film is chosen by EPCOS for their MKN stacked-film capacitors for this application because of its outstanding thermal resistance. Teonex[®] 6 Q72 satisfies the high operating temperatures, up to 150°C, for the high-pulse-strength capacitors at rated voltages of 1000 V.

Teonex[®]

PEN polyester film

Teonex[®] 1.4 to 6.0 Q72

Product Description

Teonex[®] Q72 is made from polyethylene naphthalate.

It is a high performance capacitor film with properties that are superior to traditional polyethylene terephthalate films.

For example, Teonex[®] has a higher mechanical strength, better hydrolytic resistance, higher melting and glass transition temperatures and can therefore achieve higher thermal ratings in operation.

Teonex[®] is especially suited for the manufacture of chip type capacitors for surface mounting and for increased service temperatures.

This application profile was created with the help of EPCOS AG, manufacturer of electronic components used in HID Automotive Lamps.

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Caution: Do not use in medical applications involving permanent implantation in the human body. For other medical applications, see "DuPont Teijin Films Medical Caution Statement", H-50102-DTF.

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