

PET Film [Polyethylene Terephthalate]

열화학적 특성

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|--|---|--|
| 열전도성 | : | $3.4 \times 10^4 \text{ cal / cm}^3 \cdot \text{sec} \cdot ^\circ\text{C}$ |
| 용융점 | : | 256 ~ 265 $^\circ\text{C}$ |
| 비열 | : | 1.34 KJ / Kg @ 25 Deg C (plain film) |
| 연소열 | : | 23.5 ml / kg |
| 발화온도 | : | 497 $^\circ\text{C}$ |
| 발화속도 | : | 10 ~ 12 cm^2 / min (50 micron, ASTM D 568) |
| 비중 | : | 1.4 g / ml |
| 용해성 | : | 물에 녹지 않음 |
| 휘발성분 | : | 300 $^\circ\text{C}$ 까지 휘발성이 없음 |
| Terephthalic acid and oligomers of polyethylene terephthalate (10%), mixture of carbon dioxide and monooxide (3%), acetaldehyde (2%) alcohols and ketones (낮은 분자 무게에 한함) | | |

폴리에스터 필름의 화학적 특성

폴리에스터 필름에 영향을 주지 않거나 거의 주지 않는 화학물질

| Acids | Alcohol | Ketones | Alkalies | Esters | Ethers | Hydrocarbons |
|-----------------------|--------------|------------------------|---------------------------|----------------------|-----------------|--------------|
| Hydrochloric Acids | Ethanol | Acetone | Ammonium Hydroxide(2%) | Ethyl Acetate | 1,4-Dioxane | Toluene |
| Sulfuric Acids | Methanol | Methyl-Ethyl Ketone | Sodium Hydrixude(2%) | Isopropyl Acetate | Tetrahydrofuran | Heptane |
| Nitric Acids | Isopropanol | Cyclohexanone | | | | Xylene |
| | Cyclohexanol | | | | | Benzene |

폴리에스터 필름에 영향을 미치는 화학물질

| Acids | Alkalies | Amines |
|---------------------------|-------------------------|------------------|
| Nitric Acids (35%) | Ammonium Hydroxide(10%) | Ethylene Diamine |
| Hydrochloric Acids (Conc) | Sodium Hydroxide(10%) | n-Buthyl Amine |
| Sulfuric Acids(50%) | | n-Propyl Amine |

폴리에스터 필름을 용해시키는 화학물질

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|--------------------------|
| Hexafluoroisoprppanol |
| m-Cresol |
| o-Chlorophenol |
| Phenol/Tetrachloroethane |
| Dichloroacetic Acids |