

QualisTM Technical Data Sheet 6466

Film, Embossing, and Fabrication Services

7/03

Material Safety Data Sheet

PRODUCT IDENTIFICATION

Trade Name and Synonyms	Qualis Film
Chemical Name and Synonyms	Polyethylene Terephthalate Film
Chemical Family	Polyester
DOT Hazard Classification	

COMPOSITION/INFORMATION ON INGREDIENTS

Coextrusion layers may be present. Various fillers or additives used to modify the physical appearance and/or surface properties of the various film types may be present. Concentrations of the following may range from 1%-20%: Isophthalate Copolymer (coextrusion layer), Barium Sulfate, Polypropylene, Silica Gel, Carbon Black and Titanium Dioxide.

HAZARDS IDENTIFICATION

Threshold Limit Value (TLV)	No known health hazards.
Primary Route of Entry	Not applicable
Effects of Overexposure	Decomposition products caused by overheating polyethylene terephthalate may cause skin, eye or respiratory irritation. Molten polymer can cause thermal burns. All ingredients are fully incorporated into the product. Exposure to fillers encapsulated in the film polymer is not likely during normal use. The following component is listed by IARC, NTP, OSHA or ACGIH as a carcinogen - Carbon Black.

PHYSICAL DATA

Boiling Point	
Vapor Pressure	Negligible @ 20°C (68°F)
Vapor Density	
Specific Gravity (water=1)	1.2-1.38
% Volatile (by volume)	
Solubility in Water	Insoluble
Appearance and Odor	Colorless to black (dependent on film type)

FIRST AID MEASURES

Inhalation of Dust	No specific intervention is indicated as the compound is not likely to be hazardous by inhalation. However, if exposed to fumes from overheating or combustion, remove to fresh air. If not breathing, give artificial respiration. If breathing is difficult, give oxygen. Call a physician if necessary.
Prolonged Skin Contact	The compound is not likely to be hazardous by skin contact but cleansing the skin after use is advised. If molten material gets on skin, cool rapidly with cold water. Do not attempt to remove material from skin. Obtain medical treatment from thermal burn.
Eye Contact	In case of eye contact, immediately flush eyes with plenty of water for at least 15 minutes. Call a physician.
Ingestion of Dust	Ingestion is not an expected route of exposure during normal use of this product. If ingested, consult a physician.

FIRE AND EXPLOSION DATA

Flash Point
Ignition Temperature
Extinguishing Media
Fire Fighting Procedures

Use media appropriate for surrounding material.
Keep personnel removed and upwind of fire. Wear self-contained breathing apparatus. Wear full protective equipment.
Films can be combusted only by remaining in contact with flame. If flame source is stationary, the film will shrink away and self-extinguish. Film remaining in contact with flame can continue to burn slowly, dropping flaming liquid which can spread the fire. Irritating fumes may be evolved at decomposition temperatures. During processing, films may pick up a strong static charge. Avoid discharge onto dust or solvent laden air as a flash fire or explosion may result.

Unusual Fire or
Explosion Hazards

REACTIVITY DATA

Stability and Incompatibility
Incompatibility
Hazardous Decomposition Products
Hazardous Polymerization

Stable at normal temperatures and storage conditions.
None reasonably foreseeable.
Decomposition temperature: >300°C (>572°F). Decomposition products include carbon oxides, aldehydes, terephthalic acid.
Will not occur.

ENVIRONMENTAL INFORMATION

Handling and Storing Precautions

Miscellaneous
Spill or Leak Procedures
Waste Disposal

Store away from heat and source of ignition. Do not store in direct sunlight. Avoid prolonged storage in high or low temperatures. Recommended storage temperatures are 20°F (-7°C) to 100°F (38°C).
Toxicity is expected to be low since films are insoluble in water. Films are not biodegradable.
Film and film scraps can create a slipping hazard. Collect product for recovery or disposal.
Not DOT regulated. Treatment, storage, transportation and disposal must be in accordance with applicable Federal, State/Provincial and Local regulations.

PERSONAL PROTECTION INFORMATION

Respiratory Protection
Eye Protection
Skin Protection

Do not breathe vapors or fumes that may be evolved during processing.
Use goggles when fabricating with film sheets.
Avoid skin contact with sharp film edges. Rolls of film may telescope.
Use caution when handling. Other rolled film should be stored at intended processing temperature for approximately 24 hours prior to use. Plastic packaging materials can pick up static charge. Polyester film rolls packaged with shrinkwrap (or other plastic wrap) should be opened or unwrapped only in non-process areas where ignition sources such as solvents are not in use or in storage.

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