



Oriented Polyester

DESCRIPTION:

Oriented Polyester films are rigid plastics that are strong, durable, dimensionally stable, and have anti-curl properties. They are suitable for graphics, packaging, electrical and industrial applications. Oriented Polyester films are available in super-clear to clear matte, and

smooth to matte surfaces. Available in sheets and rolls with widths from .5" to 92" with 3", 6", and 10" cores. Gauges are available from .00032" to .014", and special surface treatments include ink adhesion, slip, and anti-static.

CHARACTERISTICS:

- Easily printed with water or solvent based inks using flexography, offset lithography, and screen printing.
- Can be folded, sheeted, die cut, grommeted, glued, and sewn.
- Excellent chemical and abrasion resistance and temperature resistance.
- General inertness and free of additives.

TECHNICAL DATA:

PROPERTIES		TYPICAL VALUES	TEST CONDITIONS	TEST METHOD - ASTM
TENSILE STRENGTH	MD	>20 kg/mm ²	25° C	D-882-64
	TD	>20 kg/mm ²		
ELONGATION AT BREAK	MD	100 to 120%	25° C	D-882-84
	TD	100 to 120%		
IMPACT STRENGTH		400 gcm/cm ²	25° C. 25µ film	D-1709-62
TEAR STRENGTH - PROPAGATING		20 g/mil	25° C. 25µ film	D-1922-61
BURSTING STRENGTH		>5 kg/cm ²	25° C. 25µ film	D-774-63
FOLDING ENDURANCE		10 ⁵ cycle	25° C. 25µ film	D-2176-63
PHYSICAL PROPERTIES				
DENSITY		1.390 to 1.405 g/cm ³	25° C	D-1505-63
MOISTURE ABSORPTION		.05 wt%	23° C, 24 hr	D-570-63
TRANSMISSION RATE:	WATER VAPOR	25 g/m ² /24 hr	25µ film @ 40° C. @ 100% R.H.	E-98-66
	OXYGEN	40 cm ³ /m ² /24 hr	25µ film @ 25° C. @ 1 atm	D-1434-66
COEFFICIENT OF FRICTION: FILM/FILM	KINETIC STATIC	CF 0.3 to 0.5	25° C	D-1894-63
THERMAL PROPERTIES				
MELTING POINT		280 C°		
SOFTENING POINT		250 C°		
HEAT SHRINKAGE		2.0 %	150° C X 30 min	D-2305-67
SERVICE TEMPERATURE		-70° to +150° C		
SPECIFIC HEAT		0.3 cal g °C	25° C	
ELECTRICAL PROPERTIES				
DIELECTRIC STRENGTH		7,500 volts/mil	25° C 60hz	D-149-64
DIELECTRIC CONSTANT		3.3	25° C 60hz	D-150-65
DIELECTRIC DISSIPATION		0.0025	25° C 60hz	D-150-65
SURFACE RESISTIVITY		10 ¹² ohm-cm/cm	23° C 80% R.H.	D-257-66

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