

P514

Date
08-2011

HIGH PERFORMANCE POLYESTER TAPE

Description

P514 is a polyester label stock with permanent pressure sensitive adhesive. featuring excellent chemical resistance of the thermal transfer print. It is designed for use on stainless steel pipes in harsh environments such as the Pulp and Paper Industry.

Material	Polyester	Temperature	-40°C / 100°C
Finishing	Gloss	Certificates	RoHS / Reach
Standard colors	White, clear, yellow, blue, red, green, and magenta	Print technology	Thermal transfer
Adhesive	Permanent pressure sensitive acrylic	Ribbon(s)	AR-10 / AR-19WH

Details

Facestock

Thickness (PSTC33): Total: 0.003 in. (0.076mm)
Tensile Strength (PSTC31): 45 lb/in. (790 N/100mm)
Elongation (PSTC31): 80%

Adhesive

Adhesion to Steel (PSTC1)
15 Minute Dwell (Avg.) 60 oz/in. (65 N/100mm)
Ultimate Dwell (72 Hrs.) (Avg.) 75 oz/in. (82N/100mm)
Tack (ASTM D 2979) (Avg.) 1000 g

Abrasion Resistance (Method 5306 of U.S. Federal Test Method Std. No. 191A):

CS10 wheels, 250 g wts.
The printed legend withstands up to 100 cycles.
CS17-wheels, 1000 g wts.
Substrate withstands over 3000 cycles.

Gloss:

80 Gardner Units (100+ Gardner Units on clear)

Minimum Application Temperature:

0°F (18°C)

Service Temperature:

40°F to 212°F (40°C to 100°C)

Average Outdoor Durability:

3 to 5 years

Chemical Resistance:/ Test results

7 Day Immersion: Immersed in reagent for 7 days.

Dip Test: Five 10 minute dips in reagent with 30 minute recovery.

Rub Test: Rubbed sample for 30 seconds with swab soaked in reagent.

Reagent	7 Day Immersion	Dip Test	Rub Test
30% Sulfuric Acid	NE	NE	NE
10% Sulfuric Acid	NE	NE	NE
30% HCl	NE	NE	NE
10% HCl	NE	NE	NE
50% NaOH	F	NE	NE
10% NaOH	F	NE	NE
Methyl Ethyl Ketone	F	F	F
Acetone	F	F	F
1,1,1-Trichloroethane	F	F	F
Methanol	F	NE	F
IPA (Isopropanol)	F	NE	NE
ASTM #3 Oil	NE	NE	NE
SAE 20 Oil	NE	NE	NE
Alconox	NE	NE	NE
Toluene	F	F	F
Mineral Spirits	NE	NE	NE
Glacial Acetic Acid	F	NE	F
5% Acetic Acid	NE	NE	NE
Diesel Fuel	NE	NE	F
Heptane	F	NE	F
Cellosolve Acetate	F	F	F
Conc. Ammonia	NE	NE	NE
10% Ammonia	NE	NE	NE
Turpentine	F	NE	F
Kerosene	NE	NE	NE
Water	NE	NE	NE
Gasoline	F	NE	F

NE = No Effect

NT = Not Tested

F = Failed (affected Sample)

Storage

Two years under storage conditions as defined by FINAT (20-25°C; 40-50%RH)

Certificates

Reach / RoHS