

TECHNICAL DATA SHEET

No. TDS-725-1
April 15, 1967
Supersedes TDS-725

BRADY LITHO-PLATES

Description

BRADY Litho-Plates are bright, colorful surface printed aluminum foil nameplates. They are available in a number of thicknesses and with either a pressure-sensitive or solvent activated adhesive. Practically any combination of colors and design effects can be achieved with BRADY Litho-Plates making them the ideal economical nameplate.

Physical Properties

MATERIALS:

Aluminum Foil:

Type: Extra hard aluminum.
Thicknesses: .003", .005", .008" and .012".
Finishes: Shiny or matte for .003", .005", and .008" foil; Mill Finish for .012" foil.
Colors: Unlimited choice.

ADHESIVES:

No.	Type
B-188	A pressure-sensitive synthetic adhesive with a dry removable liner for use on smooth, flat or curved surfaces.
B-213	A solvent activated synthetic adhesive for use on smooth, flat, cast metal or crinkle surfaces.

Adhesive Properties

ADHESION TO STEEL:

Adhesive	Thickness	
B-188	.002	40 oz./in. of width, minimum
B-213	.002	40 oz./in. of width, minimum (after proper activation and 24 hours aging)

These values represent initial adhesion using .003" foil backing; higher values would be obtained using thicker backings. Initial adhesion will increase rapidly to form a permanent bond. Testing was done according to ASTM-D-1000 except the pull-back was from 90° instead of 180°.

Distance Properties

SOLVENT RESISTANCE:

Solvent	B-205	B-213
Water	Excellent	Excellent
Petroleum Oils	Excellent	Excellent
Alcohols	Very Good	Excellent
Aliphatic Hydrocarbons	Good	Good
Chlorinated Hydrocarbons	Poor	Poor
Aromatic Hydrocarbons	Poor	Poor
Ketones	Poor	Poor

TEMPERATURE:

Temperature Range: B-188: -60° F. to 250° F.
B-213: -30° F. to 200° F.

HUMIDITY:

No effect after exposure to 95% relative humidity at 100° F. for 30 days.

SALT FOG:

No effect after exposure to 20% salt fog for 200 hours.

ACCELERATED

WEATHERING:

After 200 hours exposure there was slight discoloration and water spotting.

ABRASION RESISTANCE:

Will withstand 75 cycles of Taber Abraser with CS17 wheel and 1000 gram weight.



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SHELF LIFE: 2 years for B-205 1 year for B-213 if stored at 70° F.
to 75° F. at 40% to 50% relative humidity.

RELATED BRADY NAMEPLATE PRODUCTS

POLY-PLATES	— Subsurface printed Mylar*
VINYL-PLATES	— Subsurface printed vinyl
QUIK-PLATES	— Anodized and etched aluminum foil
LITHO-PLATES	— Surface printed aluminum foil
BRADY-CAL MYLAR	— Surface printed Mylar
BRADY-CAL VINYL	— Surface printed vinyl

*DU PONT'S REGISTERED TRADEMARK

Note: All values shown are averages and should not be used for specification purposes. For a list and description of test methods used see Standard Test Procedures Form No. 826.

WARRANTY: Our products are sold with the understanding that the user will test them in actual use and determine for himself their adaptability to his intended uses. Our products are warranted to be free from defects in material and workmanship at the time sold by us but our obligation under this warranty and that of the seller is limited to the replacement of the product and neither we nor the seller are bound by any other warranty, express, implied or statutory. Under no circumstances are we or the seller liable for any loss, damage, expense or consequential damages of any kind arising out of the use or inability to use our products.