Technical Data Sheet

B-7596 THERMAL TRANSFER PRINTABLE WHITE VINYL TAG

TDS No. B-7596
Effective Date: 05/29/2015

Description:

GENERAL
B-7596 is a white opaque vinyl tag with a topcoat specifically formulated for thermal transfer printing.

APPLICATIONS
Brady B-7596 inserts are supplied roll form formatted transfer for thermal transfer printing on the TLS2200® Thermal Labeling System.

B-7596 is also available in yellow.

RECOMMENDED RIBBONS
The TLS2200® printer requires the Brady series R-6200 high performance ribbon.

SPECIAL FEATURES
B-7596 has excellent micro-perforation properties. Therefore B-7596 is ideal for use as insert/tag material.

ROHS Environmental Compliance
Brady B-7596 is RoHS compliant to RoHS directive 2011/65/EU

Details:

PHYSICAL PROPERTIES	TEST METHODS	AVERAGE RESULTS
Total Thickness	ASTM D 1000	0,2 mm (0.008 inch)

PERFORMANCE PROPERTIES	TEST METHODS	TYPICAL RESULTS B-7596/R-6210	TYPICAL RESULTS CARRIER
High Service Temperature	1000 hrs at 100°C (212°F)	No visible effect	Slight discoloration
Low Service Temperature	1000 hrs at -40°C (-40°F)	No visible effect	No visible effect
Humidity Resistance	1000 hrs at 37°C (100°F), 95% R.H.	No visible effect	No visible effect
UV Light Resistance	1000 hrs in UV light chamber	No visible effect	Slight discoloration
Weatherability	30 days QUV (ASTM G-53)	No visible effect	Very slight yellowing
Marking Permanence MIL-M-81531 20 erasure rubs	20 eraser rubs with hard hand pressure	Slight fading	Not applicable

PERFORMANCE PROPERTY	CHEMICAL RESISTANCE

Samples were printed with Series R-6200 ribbons and dwelled 24 hours prior to test. Testing consisted of 5 cycles of 10 minute immersions in the specified chemicals followed by 30 minute recovery periods. After the final immersion, samples rubbed 10 times with cotton swabs saturated with test fluid. Testing was conducted with inserts outside of carriers at room temperature; results are improved when samples are tested after inserting into carriers. Carrier results are from tests without the inserts.

R-6210			
CHEMICAL REAGENT	APPEARANCE OF INSERT AND PRINT WITHOUT RUB	APPEARANCE OF INSERT AND PRINT WITH RUB	APPEARANCE OF CARRIER
Methyl Ethyl Ketone	Insert destroyed		Completely destroyed
1,1,1-Trichloroethane	No visible effect	Print gone	No visible effect
Alcohol Mix*	No visible effect	No visible effect	No visible effect
JP-4 Jet Fuel	No visible effect	No visible effect	Carrier tinted yellow
SAE 15 WT Oil	No visible effect	No visible effect	Carrier tinted yellow
ASTM #3 Oil	No visible effect	Print gone	Carrier tinted yellow

Mil 5606 Oil	No visible effect	No visible effect	Carrier tinted red
Mil 7808 Oil	No visible effect	No visible effect	No visible effect
Skydrol® 500B-4	Severe print removal	Print gone	Completely destroyed
Deionized Water	No visible effect	No visible effect	No visible effect
10% Sulfuric Acid Solution	No visible effect	No visible effect	No visible effect
5% Salt Water Solution	No visible effect	No visible effect	No visible effect

* Alcohol Mix is 50% ethanol, 30% methanol, and 20% water by volume.

PERFORMANCE PROPERTY	TEST METHOD
Chemical Resistance	MIL-STD-202F, Notice 12, Method 215J

Labels printed with alphanumerics. Samples subjected to 3 cycles of 3 minute immersions immediately followed by a toothbrush rub for 10 times in forward direction after each immersi on.

TEST FLUID	TYPICAL RESULTS R-6210
Solvent A 1 part IPA, 3 parts Mineral Spirits	Very slight print removal
Solvent B 1,1,1-Trichloroethane	Print gone
Solvent C Terpene Defluxer	Severe fading of the printing
Solvent D Saponifier at 63°-70°C	Print gone

Product testing and history of similar products, support a customerperformance expectation of at least***two years from the date of receipt*** for this product as long as this product is stored in its original packaging in an environment *below 27 degrees C and 60% RH* . We are confident that our product will perform well beyond this time frame. However, it remains the responsibility of the user to assess the risk of using such product. We encourage customers to develop functional testing protocols that will qualify a product's fitness for use, in their actual applications.

Trademarks:
Skydrol® is a registered trademark of the Monsanto Company

Note: All values shown are averages and should not be used for specification purposes.
Test data and test results contained in this document are for general information only and shall not be relied upon by Brady customers for designs and specifications, or be relied on as meeting specified performance criteria. Customers desiring to develop specifications or performance criteria for specific product applications should contact Brady for further information.

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