

With **3M™ Durable Resin Ribbon 92904** print on 3M™ Thermal Transfer Label Materials 7246, 7247, 7815, 7868, 7871, or **76716NA/76717NA** for high durability images without an overlaminate. The combination of ribbon "ink" and facestock takes abrasion and the harsh attack of many organic solvents with minimal or no damage to image density.

Results at right are based on 3M<sup>™</sup> Thermal Transfer Label Material **76716NA/76717NA** and a **Zebra 140XiIII** at a 20 burn setting and print speed of 4 in./second. Fluids were wiped over test area with cotton cloth, and double rubbed with 300g pressure until the printed image visually changed.



Test Chemical	Resistance
Acetone	
Brake fluid (Dot 4)	
Diesel	
Formula 409	
Heptane	
Isopropyl alcohol (IPA)	
Lemon grass oil	
Methyl ethyl ketone (MEK)	
Motor oil	
Petrol	
Skydrol (LD4)	
3M™ Citrus Cleaner	

EXCELLENT (minimal or no print damage, 80-100 double rubs)

GOOD (minor print damage, 50-80 double rubs)

SOME (ribbon partially removed, 20-50 double rubs)

POOR (ribbon removed, 0-20 double rubs)



## 3M<sup>™</sup> Thermal Transfer Label Materials for use with 3M<sup>™</sup> Durable Resin Ribbon 92904

Product	Facestock	Typical Performance Characteristics	Construction Facestock (mils) Adhesive Type (mils) Liner (mils)	Roll Width Minimum Mini-Master (shown in red)	Specs
76716NA	Polypropylene Gloss White	Excellent resistance to organic solvents such as acetone when used with ribbon 92904. Abrasion and smudge resistant with minimal or no damage after 100 cycles with CS-10 wheel, 250g load.	PP, Gloss White <b>350</b> (1.1) 55# Densified Kraft (3.2)	54" 1668' Min. Precision	RoHS
76717NA	Polypropylene Gloss White	Heavy adhesive coat weight for textured surfaces. Excellent resistance to organic solvents such as acetone when used with ribbon 92904. Abrasion and smudge resistant with minimal or no damage after 100 cycles with CS-10 wheel, 250g load.  PP, Gloss White  350 (1.8)  55# Densified Kraft (3.2)		54" 1668' Min. Precision	RoHS
7246	Polyester Matte White	Extreme durability topcoat. Eliminates the need for protective overlaminates in many applications.  PET TT3, Matte White (2.2)  350 (1.8) 40# Densified Glassine (2.2)		48" 1668' Min. <b>4.5', 6"</b>	UL RoHS
7247	Polyester Matte Silver	Extreme durability topcoat. Eliminates the need for protective overlaminates in many applications.	PET TT3, Matte Silver (2.3) <b>350</b> (1.8) 40# Densified Glassine (2.2)	48" 1668' Min. <b>4.5', 6"</b>	UL RoHS
7871	Polyester Gloss White	Heavy adhesive coat weight for textured surfaces. Excellent high temperature resistance. Excellent adhesion to LSE plastics and powder coats. Precision Roll Program – custom slit rolls as small as 2.5" x 1668', as wide as 54", and with up to one splice.	PET, White TC (2.0) <b>350</b> (1.8) 55# Densified Kraft (3.2)	54" 1668' Min. <b>6"</b> Precision	UL CSA RoHS
7868		Excellent high temperature resistance. Excellent adhesion to LSE plastics and smooth powder coats. Precision Roll Program – custom slit rolls as small as 2.5" x 1668', as wide as 54", and with up to one splice.	PET, White TC (2.0) <b>350</b> (1.1) 55# Densified Kraft (3.2)	54" 1668' Min. <b>6"</b> Precision	UL CSA RoHS
7815	Polyester Matte White	Features ultra smooth topcoat. Ideal for barcode applications. Very good durability with ribbon 92904.	PET, White TT TC (2.3) <b>310</b> (0.8) 50# SC (3.2)	54" 1668' Min. <b>4.5', 6"</b>	UL CSA- RoHS

Product	Dimensions	Wound	Case Qty.	SKU	Specs
92904	40 mm x 300 m 60 mm x 300 m 83 mm x 300 m 40 mm x 300 m 60 mm x 300 m 83 mm x 300 m	CS0 CSI	24	70-0004-4599-2 70-0004-4595-0 70-0004-4597-6 70-0004-4574-5 70-0004-4591-9 70-0004-4593-5	RoHS UL pending



NOTE: This technical information and data should be considered representative or typical only and should not be used for specification purposes.

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