UPM Raflatac Technical Information

23-06-2025 EN SI EMEIA

Product	**PET MATT SILVER TC 50 / RP37S / HD 70**
Sales Code	ZC/R37S/28
EAN	6415788232354
Product use	Product designed for less demanding durables labelling applications that still need good adhesion on various surfaces and good print resistance against chemicals, UV-light, heat and moisture. This product is less prone to dusting than equivalent matt films.

Typical technical values

Face	**PET MATT SILVER TC 50**		
Product	Silver, matt top-coated polyester film.		
Substance	71	g/m²	DIN 53352
Caliper	51	µm	DIN 53370
Printability	Suitable for flexography, screen and offset printing methods. Special inks designed for non-absorbent materials should be used. Thermal transfer possible with selected wax-resin and resin ribbons.		
Adhesive	**RP37S**		
Type	Clear permanent adhesive.		
Composition	Acrylic, water borne.		
Tack	12	N/25mm	FTM 9
Peel 90°	9	N/25mm	FTM 2
Backing	**HD70**		
Product	A white transparent glassine backing paper.		
Substance	62	g/m²	ISO 536
Caliper	54	µm	ISO 534
Tensile strength MD	7	kN/m	ISO 1924
Tensile strength CD	2,7	kN/m	ISO 1924
Transparency	48	%	DIN 53147

Performance	
Total caliper	123 µm
Minimum labelling temperature	5 °C
Service temperature	-40 °C to 100 °C

Shelf life

From date of manufacture: 24 months, under FINAT defined storage conditions (+20-25°C and RH 40-50%). Prolonged storage at higher temperatures and/or humidity levels will shorten the shelf life.

Information

Adhesion

Due to the fact that the adhesive needs a certain time to reach its final adhesion, we recommend waiting at least 24h (better 72h) after dispensing the label to the substrate before proceeding with any performance tests. Test Conditions: 23°C and 50% RH. FTM1: 180° Peel Adhesion (300mm/min) with 72h dwell time.

Surface	[N/25mm]
Stainless Steel	18
ABS	9
Polycarbonate	15
Polypropylene	8
HDPE	5
PA6	10
PA6 + GF30	8
Polyester	10
Lacquered panel	8
Powder coated panel	6

Chemical resistance

Test Conditions: Dwell time on glass plate: 24 h; 23°C 50% RH Immersion in chemical: 4 h; 23°C 50% RH

Chemical	Visual Appearance	Edge Penetration (mm)
Brake Fluid	no change	0
Engine Oil	no change	0
Diesel	no change	0
Distilled Water	no change	0
Dish Washing Agent	no change	0
Bleach	no change	0

Thermal Transfer Ribbons

(included in File MH26760) Armor: AXR 7+; Dainippon TR4070; Ricoh B110CR

Approvals

UL and CSA compliance

UL recognized acc. to UL969 and CSA recognized acc. to C22.2 No. 0.15. File-No.: MH26760

UL

File MH26760: Additional conditions: DL - Occasional exposure to Laundry Detergents F1 - Occasional exposure to Fuel Oil No. 1 G - Occasional exposure to Gasoline splashing O - Occasional exposure to Lubricating Oil

Application Surface	Max Temp [°C]	Min Temp [°C]	Indoor Use	Outdoor Use	Additional conditions
Aluminium (AL)	80	-40	x	x	DL, F1, O
Stainless steel (SS)	80	-40	x	x	DL, F1, O
Acrylonitrile butadiene styrene (ABS)	80	-40	x	x	DL, G, O
Polyethylene (PE)	80	-10	x	-	DL, F1, O
Polystyrene (PS)	80	-40	x	x	DL

Typical values

The listed technical data are typical values and give indications about the performance of the material only. They are not intended for specification purpose.

Disclaimer

The performance of the product should always be tested in the actual application conditions. Our recommendations are based on our most current knowledge and experience. As our products are used in conditions beyond our control, we cannot assume any liability for damage caused through their use. Users of our products are solely responsible that the product is suitable for its intended application, and have determined such at their sole discretion. Users must comply with any applicable legislation and/or testing requirements for the finished article, and are responsible for bringing their products to market.

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