UPM Raflatac Technical Information

23-06-2025 EN SI EMEIA

Product	**PET MATT SILVER TC 50 / RC18 / HD 70**
Sales Code	ZC/RC18/28
EAN	6415788053867
Product use	Product designed as a universal durables labelling solution, performing the lifetime of the labelled product with very good adhesion and good print resistance against chemicals, UV-light, heat and moisture. Its universality helps simplify product portfolios and reduce testing and evaluation of label materials. 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	**RC18**			
Type	Strong permanent			
Composition	UV-acrylic			
Tack	20	N/25mm	FTM 9	(on glass)
Peel 180°	23	N/25mm	FTM 1	(on glass)
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	130 µm			
Minimum labelling temperature	5 °C			
Service temperature	-40 °C to 200 °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

Adhesive coatweight

25 g/m²

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 (300 mm/min) with 72 h dwell time.

Surface	[N/25mm]
Stainless Steel	21
ABS	18
Polycarbonate	25
Polypropylene	18
HDPE	12
PA6	16
PA6 + GF30	15
Polyester	17
Lacquered panel	15
Powder coated panel	11

Chemical resistance

Test Conditions: Dwell time on glass plate: 24 h 23°C and 50% RH Immersion in chemical: 4 h 23°C and 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) Amor: AXR 600, AXR 7+; Iimak: B110C, SP-330; Sony Chemicals: TR4070

Approvals

UL and CSA compliance

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

UL

File MH26760: Additional conditions: D - Occasional exposure to Detergents

Application Surface	Max Temp [°C]	Min Temp [°C]	Indoor Use	Outdoor Use	Additional conditions
Alkyd paint (AK PT)	80	-40	x	x	D
Aluminium (AL)	80	-40	x	x	D
Stainless steel (SS)	80	-40	x	x	D
Acrylonitrile butadiene styrene (ABS)	80	-40	x	x	D
Polyethylene (PE)	80	-	x	-	-
Polypropylene (PP)	80	-	x	-	-
Polystyrene (PS)	80	-40	x	x	D

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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