

UPM Raflatac Technical Information

19-02-2022 EN SI

Product	ACRYLATE WHITE UD TC / RC18 / HD 70
Sales Code	FXH/RC18/28
EAN	6415788261095
Product use	Product designed for security labeling applications when tamper-evident features are required. With its brittle face material characteristics, this white product, is difficult to remove in one piece without visible evidence of the tampering, once adhered.

Typical technical values

Face	ACRYLATE WHITE UD TC			
Product	A white, top coated, satin finish, acrylate film with low elongation at break.			
Substance	90	g/m²	ISO 536	
Caliper	51	µm	ISO 534	
Tensile strength MD	67	MPa	ISO 527/3	
Elongation at break MD	6	%	ISO 527	max.
Printability	Suitable for UV flexo, UV screen and UV letterpress; other methods should be tested.			

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/m ²	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	-20 °C to 100 °C
Shelf life	From date of manufacture: 12 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	
Product Information	It takes from several hours to days for the adhesive to develop its full tamper evident functionality.

Additional info

Label corners should have a larger radius than normal (minimum 3mm). Matrix removal should take place directly after die-cutting to prevent adhesive "flowing" back, using large diameter roller, not a blade. Experience shows that higher machine speeds (compared to PVC White UD) are possible, with 3mm label gaps and 5mm radius corners. In general this product is suitable for manual and automatic dispensing. We recommend to validate the functionality under original conditions. The face destruction when an attempt to remove the label is made, requires a specific adhesion to the substrate and is typically of a tearing type. To assist the tearing of the face film when applied to polar surfaces, security slits should be added. We recommend considering all parameters that can influence the adhesion, namely substrate, temperature, application pressure and dwelling time.

Disclaimer

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