

TECHNICAL DATA SHEET

STERILIZATION FLAT/GUSSET REEL, 60gsm

	PRODUCT CODE		:	4AFR (Flat Reel) - 4AGR (Gusset Reel)			
TEHNICALDATA SHEET	RELATED STANDARDS		:	4A Medical flat and gusseted reels are manufactured according to EN 868-5 and ISO 11607 standards. The indicator used in the reel production is classified as Class 1 Type Indicator according to the ISO 11140-1 standard. 4A Medical Reels meet the requirements of 93/42/EEC Medical Device Directive regulations			
	INTENDED USE		:	4A Medical reels are designed to provide excellent barrier for sterile medical device packaging purposes. Reels meet the Medical Industry's requirement for high quality, hygiene and safety levels. 4A Medical reels are used for the packing of the Medical Devices before sterilization and it maintains the sterility of the products after sterilization. 4A Medical reels are ease to package and indicator used for the sterilization provides information with the sterilization status of the medical devices. Sterilized material in sterilization package is storable for up to 5 years after the sterilization in a clean room conditions.			
	FILLING VOLUME		:	According to DIN 58953-7 (German national standard): Seleable paper bags and seleable pouches and reals shall be filled up to 3/4 max of their volume. This limits avoids too high stress / burdon to the seals. Belowe the buttom seal there must be space of minimum 30 mm between load and sealing area. There is no known limit bu standarts for weight and it is based on experience. However, it is suggested to follow the 3/4 rule. In terms of solid, heavy load (metal instruments), it is the weight itself, in case of any sharp objects which could demage the material, and the volume of condensate (directly related to mass=weight) which is created during the steam sterilization.			
	OPERATION CONDITIONS :			4A Medical reels are used for steam, ethylene oxide, formaldehyde sterilization methods. The sterilization conditions should be determined by the end user regarding to material to be sterilized.			
	SPECIFICATIONS :						
	MEDICAL PAPER	PROPERTIES			UNITS	STANDARD	TYPICAL VALUE
		SUBSTANCE			g/m²	ISO 536	60,0
		THICKNESS			μm	ISO 534	76
		BENDTSEN POROSITY			ml/min	ISO 5636-3	650
		AIR PERMEANCE			μm (Pa*s)	ISO 5636-3	7,4
		BENDTSEN ROUGHNESS FS			ml/min	ISO 8791-2	250
		BENDTSEN ROUGHNESS WS			ml/min	ISO 8791-2	250
		PORE SIZE			μm	EN 868-2 (app.D)	17
		TENSILE STRENGTH, MD			kN/m	EN ISO 1924-2	5,9
		TENSILE STRENGTH, CD			kN/m	EN ISO 1924-2	2,9
		WET TENSILE STRENGTH, MD			kN/m	ISO 3781	1,6
		WET TENSILE STRENGTH, CD			kN/m	ISO 3781	0,9
		BURST STRENGHT			kPa	ISO 2758	300
		WET BURST			kPa	ISO 3689	100
		TEARING STRENGHT MD			mN	ISO 1974	600
		TEARING STRENGHT CD			mN	ISO 1974	650
		COBB TEST (60s)			g/m²	ISO 535	15,0
		WATER REPELLENCY			S	EN 868-2 (app.E)	30,0
		FLOUORESCENCE			pts/dm ²	EN 868-2 (app.B)	0,0
		FREE FROM LEAD AND HEAVY METALS AND TO			TOXIC MATERIALS		



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PROPERTIES UNIT TYPICAL VALUE LAM.FILM 52 ± 5 THICKNESS PE Micron 40 ± 5 LAMINATED FILM PET 12 ± 2 BREAKING FACTOR N/15mm 35 TEAR STRENGTH MD/CD mN300 BOND STRENGHT N/m 265 ELONGATION % 70 TEMPERATURE DURABILITY 30 min/140C min/degrees FREE FROM LEAD AND HEAVY METALS AND TOXIC MATERIALS PRODUCT SPECIFICATION PROPERTIES UNIT TYPICAL VALUE SEAL STRENGTH N/15mm 2.5 BUBBLE TEST None PINHOLE POUCH None DETERMINATION DIMENSION CONTROL cm or mm Desired dimensions LEAKAGE TEST None PEEL DIRECTION None Returns the INDICATOR CONTROL specified color STERILIZATION METHOD **BEFORE STERILIZATION** AFTER STERILIZATION INDICATOR STEAM BLUE GREEN EO PINK ORANGE FORMALDEHYDE PURPLE GREEN 4A Medical reels are packaged in carton boxes as below: **PACKAGING:** Flat Reels are 200m long and Gusset Reels are 100m long. Product dimensions Pieces in carton 50mm X 200m / 10 75mm X 200m / 75mm X 100m 8 100mm X 200m / 100mm X 100m 8 120mm X 200m / 120mm X 100m 4 150mm X 200m / 150mm X 100m 4 200mm X 200m / 200mm X 100m 4 250mm X 200m / 250mm X 100m 2 300mm X 200m / 300mm X 100m 2 350mm X 200m / 350mm X 100m 2 400mm X 200m / 400mm X 100m 2 420mm X 200m / 420mm X 100m 2 450mm X 200m / 450mm X 100m 2 500mm X 200m /500mm X 100m 2 DORT-A TIP MALZEMELERI SAN. ITH. IHR. TIC. LTD. STI. MANIFACTURER : Balıkhisar Mahallesi, Köyiçi Serpmeleri, No:795 Akyurt, Ankara, Turkey Tel: +90 312 363 50 52 / 53 Fax: +90 312 363 52 10

Web: http://www.4amedical.com E-mail: export@4amedical.com

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