

TERVAKOSKI FILM

RERCT

RERCT FEATURES

High Temperature PP-film manufactured by tenter process with super clean electrical grade resin. Tervakoski film RERCT has controlled hazy surface on both sides and corona treatment on one side.

GENERAL APPLICATIONS

Base film for metallisation to be used in impregnated high and low voltage power capacitors for AC and DC. RERCT is designed for high ambient temperatures to meet the needs of high dielectric strengths and long durability.

STANDARD THICKNESSES (BY WEIGHT)

[μm]
7,4 8 9 10 11,2 12 12,7 13,6 14,4 15,2 16,2 17,8
Thickness tolerance $\pm 3\%$

ROLL DIMENSIONS

CORE (I.D)	152 \pm 1 mm
ROLL (O.D)	Up to 580 mm
ROLL WIDTH	8-1200 mm
WIDTH TOLERANCES:	
Roll width <150 mm	$\pm 0,4$ mm
Roll width ≥ 150 mm	$\pm 1,0$ mm

SURFACE PROPERTIES

SPACE FACTOR			
	Lot average	95%-range	Test method
< 8 μm	7,5 - 11 %	7 - 12 %	TTM 216
8 - 12 μm	8,5 - 11 %	7,5 - 12 %	
>12 μm	9,5 - 12 %	8 - 12 %	
Surface tension	≥ 34 mN/m		TTM 302

ELECTRICAL PROPERTIES

DIELECTRIC CONSTANT	2,2	TTM 230
25 °C, 50 Hz-1 MHz		
RESISTIVITY	$> 1 \times 10^{15} \Omega\text{m}$	TTM 230
< 100 °C		
DISSIPATION FACTOR	$\leq 1,8 \times 10^{-4}$	TTM 230

GENERAL PHYSICAL PROPERTIES

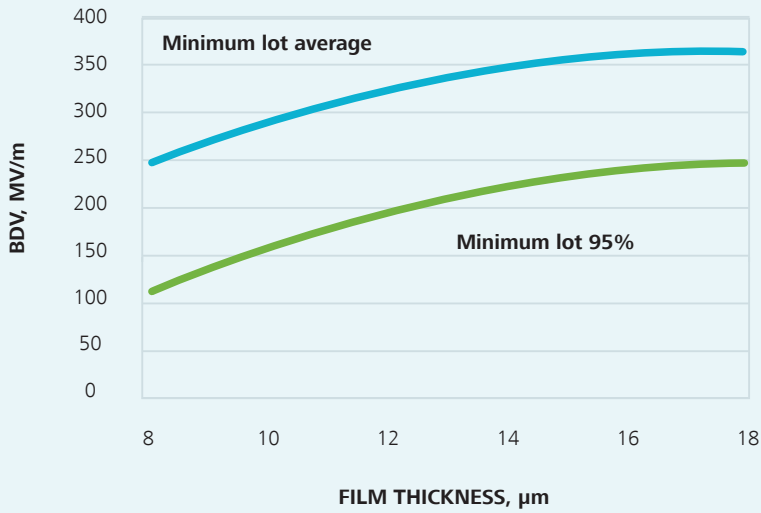
DENSITY	0,910 g/cm ³	
SOFTENING POINT	140 °C	Vicat
MELTING POINT	165-170 °C	
WATER ABSORPTION	< 0,01 %	

MECHANICAL PROPERTIES (TYPICAL VALUES)

TENSILE STRENGTH			TTM 218
	MD	≥ 130 MN/m ²	
	CD	≥ 200 MN/m ²	
MODULUS OF ELASTICITY			TTM 213
	MD	≥ 1900 MN/m ²	
	CD	≥ 2000 MN/m ²	
SHRINKAGE (100 °C, 10 MIN)			TTM 213
$\leq 10 \mu\text{m}$	MD	≤ 4 %	
	CD	≤ 2 %	
> 10 μm	MD	≤ 4 %	
	CD	$\leq 1,5$ %	

CHEMICAL PROPERTIES

ASH CONTENT	≤ 30 ppm	TTM 506
CHLORINE CONTENT	≤ 10 ppm	TTM 504



DC-breakdown strength of dry one-layer capacitor windings, electrode area $2 \times 2\text{m}^2$. Test method TTM 222.

PACKING

Each individual roll is wrapped with polyethylene film to protect against dust and foreign particles during normal conditions of transport and storage. The roll is in horizontal hanging position hold by plastic or wooden supporting plates. Soft plastic discs are inserted between roll edge and plastic/ wooden supporting plate. The roll and supporting plates are bound together with plastic straps.

A set of the rolls on the pallet is bound together and tied to the pallet with plastic straps. The pallet is wrapped with stretch film. Pallet size is set according to the roll diameter and width.

STORAGE

In the handling of pallets and individual rolls all kinds of shocks should be avoided. The rolls should be stored in the original package and in a dry place. Temperature exceeding 40°C should be avoided during storage. It is also recommended that film is used within one year of receipt. A longer storing time increases the risk of metallisation problems.

LABELLING

Each roll is equipped with a label, which is placed either on the outer surface of the roll or inside the core.

TERVAKOSKI FILM RERCT 1
Polypropylene film 2

NOMINAL THICKNESS	10,0 um	ROLL NO	4-0006167321
THICKNESS BY WEIGHT	10,08 um	3003545/0006164186/2/01/01	
WEIGHT	154,70 kg	LENGTH	21630 m
TREATED SIDE	41.0/OUT	WIDTH	780 mm
NO OF JOINTS			
CUSTOMER ORDER NO.	4500028492-20		
OPERATOR	009	DATE	01.09.2015

40006167321000780015470216301001013003545000616418620101009

Tervakoski film Tervakoski Films Group, Ukraine - Lutsk

INFORMATION ON THE LABEL:

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| <ul style="list-style-type: none"> 1. Product name and film type 2. QR-code - meaning: 'CHARG: roll number; MENGE: roll weight kg;' 3. Nominal thickness (by weight) [µm] 4. Actual thickness (by weight - calculated) 5. Roll weight 6. Surface tension value (level) / side (OUT, IN) 7. Number and position of joints 8. Customer order number + customer material number (if applicable) 9. Slitting operator code 10. Production code (4 – Lutsk line 4) , roll number | <ul style="list-style-type: none"> 11. Production order 12. Mill/mother roll number 13. Mill/mother roll position (1 - left, 2 - right) 14. Number of set of rolls (on slitting) 15. Roll number (position) 16. Actual film length 17. Film width 18. Slitting date 19. Bar-code 20. Tervakoski film logo 21. Production site 22. Note 23. "BAD-SL compatible" (if applicable) |
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