

* Most MCS Approved synthetic leather materials are set with NASA-T. The same Tm of NASA-TT makes it easy to replace.

NASA-TT is a result of our expanding commitment to the creation of more sustainable technologies. It helps us reduce our carbon footprint by decreasing thickness & no-sew press time. Most Nike approved synthetic materials are registered with NASA-T. The same Tm of NASA-TT makes it easy to replace.

[NASA-TT Physical & Thermal properties]

Test items			NASA-T	NASA-T1	NASA-TT	
Physical Properties	Specific Gravity	g/cc	1.20~1.22	1.20~1.22	1.20~1.22	
	Thickness	mm	0.2	0.15	0.12	
	Tensile	kgf/cm ²	Min 400	Min 400	Min 450	
	300% Md	kgf/cm ²	Min 60	Min 60	Min 60	
	Elongation	%	Min 600	Min 600	Min 650	
	Tear	Kgf/cm	Min 80	Min 80	Min 80	
Thermal Properties	Flow beginning Temp. (°C)	Film	118 ± 4	118 ± 4	118 ± 4	
	Melt Index (g/10min)	Film	8~14	8~14	8~14	
	DSC (TA Instruments)	Tg (°C)	1st	-29.1	-35.2	-40.1
			2nd	-11.5	-23.3	-26.7
		Tm (°C)	1st	129.0	111.3	131.6
			2nd	120.0	120.2	135.7

[CHARACTERISTICS]



Good bonding Strength

Same bonding strength and Physical & Thermal properties as NASA-T 200um.



Soft & Light

Soft and light weight due to reduced thickness.



NASA-TT is a product that improves chemical overflow during No-sew.

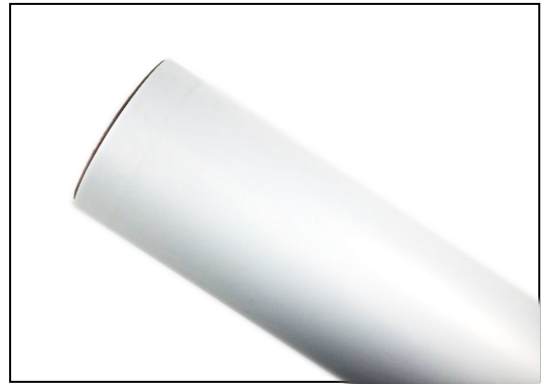


Energy Saving (33.3%)

Press time
30 sec
→ 20 sec

THIN, SOFT, LIGHT, AND
HIGH BODING SCORE
VERSION HOT-MELT
(UPGRADE OF NASA-T1)

[NASA-TT]



· PHYSICAL PROPERTIES ·

Width (폭)	44/47/54 inch
Thickness (두께)	0.06 ~ 0.018 ± 0.04 mm
Tfb	114°C~ 122°C
Melt Flow Index	8~14g/10min (177°C, 2.16kgf)

· SHIPPING/STORAGE INFORMATION ·

Lead Time (자재 조달 기한)	(S) 2 weeks (P) 2 weeks
MOQ (최소발주 수량)	(S) None (P) 1 roll
Available production location (자재 생산가능 국가)	SAMBU VIETNAM (1225.2)/SAMBU INDONESIA (1225.3)
Packaging Unit (배송단위)	0.06MM 100M/roll, 0.12~0.18MM 50M/roll
Material storage condition (자재 보관 방법)	Store in cool and dry place. Keep it out of sun-light (UV) Without opening the package. <Precautions for Repacking> Re-seal the material with the colored PE tightly to prevent UV and environmental exposure
Material Shelf life (자재 품질 수명)	12 months after production (Without opening the package)

· MATERIAL WORKING CONDITIONS ·

Material applicable process (적용 가능 공정, 사용방법)

No-sew, Lamination

Application working condition (추천 작업조건)

Setting : 135~140°C, 45bar~60bar, 20 sec for No-sew process
(30 sec for No-sew process available)
Actual : start temperature at 10 sec left, 121~125°C (by HOB0)

Limitation, Critical Information
(자재 한계, 개선 불가사항)

1. QUV score will be decreased after No-sew process.
2. Tfb doesn't mean the recommendation temperature for No-sew.
3. Hot melt films do not have MCS number

Comment

1. Good softness & Stretchable /
Low melting temperature & overflow.
2. Advantage of 0.12mm thickness: cost save, Light weight,
softness effect and good bonding score.
3. Multi layer work is available at once
4. Decreasing press time (30 sec → 20 sec)