

Chemical & Biological Test on Sunrise-Suntech Materials

Test Conducted by Independent Lab Using ASTM F903 on Chemicals & ASTM F1671-97a on Blood

Chemical Tested	Concentration %	Test Time Mins.	Sunrise Ind. Suntech
DIAZINON	100%	60	Pass
Motor Oil - 40 wt.	100%	60	Pass
Bleach - Household	100%	60	Pass
Isocyanate (Based Paint)	100%	60	Pass
Sodium Hydroxide -50%	50%	60	Pass
Sodium Hypochlorite	10%	60	Pass
Blood	Challenge Fluid Titer 3.20×10^8 * PFU/mL	Assay Results PFU/mL <1	Pass

Physicals: Test Data Comparison Micro Max v/s Nex Gen

Test Description	Micro Max	Nex Gen
Basis Weight - ASTM D751	2.10 oz./Syd	1.75 oz./Syd
ASTM D5035 MD Strip tensile CD	12.4 lbs. 10.0 lbs.	7.5 lbs. 4.5 lbs.
ASTM D5035 MD Tensile - Work to Break CD:	17.0 in.-lbs. 20.3 in.-lbs.	13.3 in.-lbs. 4.2 in.-lbs.
Tensile Strength MD ASTM D5034 CD Grab Method	32.4 lbs. 32.6 lbs.	N/A
Trapezoid Tear MD ASTM D1117 CD	12.3 lbs. 10.9 lbs.	13.5 lbs. 6.0 lbs.
Tongue Tear MD ASTM D2261 CD	5.1 lbs. 6.2 lbs.	3.7 lbs. 2.1 lbs.
Ball Burst ASTM 3787	32.1 lbs.	26.3 lbs.
Mullen Burst ASTM D751	34.8 psi	N/A
Taber (1st Hole) Abrasion (Wear Through) ASTM 3884 (1st Hole) <i>Note: Film side of Materials Fail @ point of Wearthrough</i>	1620 Cycles-NW WT-500 - NW side 2076 Cycles-Film WT-356 - Film Side	N/A 2640 Cycles WT-543
Air Permeability ASTM D737	Below 0.562 CFM/SqFt	Below 0.562 CFM/SqFt
Wyzenbeek - (1st Hole) Abrasion- (Wear Through) ASTM 4157 - (1st Hole) <i>Note: Film side of Materials Fail @ point of Wearthrough</i>	N/A N/A 1000 Cycles-Film WT-500 - Film Side	N/A N/A
Hydrostatic Water Resistance ASTM D751	127+cm Procedure B	127+cm Procedure B
Water Vapor Transmission ASTM E96 (Method B)	1489- Nonwoven 1419- Film side To Water	1259
Flammability	Pass	N/A
16 CFR 1610	7.3	

MD: Machine Direction