

Test Method: ASTM F2299/F2299M-03 (reapproved 2017) Determining the Initial Efficiency of Materials Used in Medical Face Masks to Penetration by Particulates Using Latex Spheres

Testing parameters per ASTM F2100-19 Standard Specification for Performance of Materials Used in Medical Face Masks

IBR JN: 22183B3 rev 1

Performed for: Proper Cloth
Location: Kowloon, Hong Kong
Contact: Kit Li

Date: 22 July 2020

Description of Samples: Luxe 3D (Damon) - Before Wash, flatsheet media

Test Area: 45.22 cm²

Manufactured for Proper Cloth Inc.

Source: TAL Apparel Ltd.

Date Samples Received: 01 July 2020

Fluid: Air

Flow Rate: 28.3 lpm

Face Velocity: 10.4 cm/s

Challenge: 0.1µm (±15% CV) Latex Microspheres (Neutralized)



Filter ID	Differential Pressure (mmH ₂ O)	Port	Particles / 2 ft ³	
22183-31	6.1	Upstream Downstream Efficiency (%)	7224900 286906 96.03	Temp: 23.5 °C RH: 48.8 % BP: 733 mmHg
22183-32	9.9	Upstream Downstream Efficiency (%)	7184200 56819 99.21	Temp: 23.5 °C RH: 49.0 % BP: 733 mmHg
22183-33	10.4	Upstream Downstream Efficiency (%)	7090325 54829 99.23	Temp: 23.5 °C RH: 49.2 % BP: 733 mmHg
22183-34	9.7	Upstream Downstream Efficiency (%)	7097875 56873 99.20	Temp: 23.4 °C RH: 49.0 % BP: 733 mmHg
22183-35	11.2	Upstream Downstream Efficiency (%)	7222800 48274 99.33	Temp: 23.5 °C RH: 48.7 % BP: 733 mmHg
22183-36	9.7	Upstream Downstream Efficiency (%)	7111675 67298 99.05	Temp: 23.5 °C RH: 48.8 % BP: 733 mmHg
22183-37	10.9	Upstream Downstream Efficiency (%)	7084850 49986 99.29	Temp: 23.4 °C RH: 48.8 % BP: 733 mmHg
22183-38	6.6	Upstream Downstream Efficiency (%)	7083550 237990 96.64	Temp: 23.4 °C RH: 47.9 % BP: 733 mmHg
22183-39	6.1	Upstream Downstream Efficiency (%)	7122675 333515 95.32	Temp: 23.3 °C RH: 48.3 % BP: 733 mmHg
22183-40	6.6	Upstream Downstream Efficiency (%)	7110375 236038 96.68	Temp: 23.4 °C RH: 48.2 % BP: 733 mmHg

Notice: These data relate only to the samples tested. This report may be copied only in its entirety.

Performed By: DN

Data Location: DN264

Manufacturer	Model Number	Serial Number	IBR ID	Range of Use	Cal Due
Alicat Scientific	M-50SLPM-D/5M	99929	AF-113	5-45 SLPM	9/3/2020
Dwyer	DHII-007	Date Code: A31X	MAN-31	0.1-10.0 inH ₂ O	2/17/2021
Vaisala	HMT330	L5220038	RH-206	12-75%RH/16-27C	1/9/2021
Testo	511	39111389/505	MAN-51	300-1200 hPa	8/29/2020
PMS	Lasair III 110	116514	N/A	0.1-5.0 µm	12/17/2020
PMS	Lasair III 110	102709	N/A	0.1-5.0 µm	9/1/2020

Reviewed By: _____



Daniel R. Miller, Air Labs Manager

Revision	Editorial / Technical	Description	Approved By	Release Date
		Initial release	DRM	7/23/2020
1	Editorial	Addition of Damon to sample description and mfg information	DRM	7/31/2020