

**Test Result :** **LEVEL 2**

Report No : 2020170802
Applicant : **HAYAT KİMYA A.Ş**
Adress: Hayat Kimya A.Ş Sepetlipınar Mah. Hayat Cad. No:2 Yeniköy Başiskele/KOCAELİ
Contact Person : Fatih MERTTÜRK
Telephone: +262 317 53 30
E-mail: fmertturk@hayat.com.tr / ontuna@hayat.com.tr
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Sample ID : **GOODCARE YUMUŞAK KULAKLI MASKE**

	TEST	METHOD	RESULTS
*	Standard Specification for Performance of Materials Used in Medical Facial Masks	ASTM F 2100	PASS
*	Standard Test Method for Determining the First Efficiency of Substances Used in Medical Facial Masks to Penetration Using Particles Using Latex Spheres	ASTM F 2299	PASS
*	Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)	ASTM F 1862	PASS
*	Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus	ASTM F 2101	PASS



Seal

Customer Representative
Hasan KUTLULaboratory Manager
Hava Sariaydın

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Environment

The requirements and standards apply to equipment intended for use in

X	Residential (domestic) environment
X	Commercial and light-industrial environment
X	Industrial environment
X	Medical environment



ASTM F 2100 : Standard Specification for Performance of Materials Used in Medical Facial Masks

This specification covers tests and requirements for the materials used in making medical face masks used in the provision of health services such as surgery and patient care.

This specification provides a classification of medical face mask material performance. Medical face mask material performance is based on bacterial filtration efficiency, differential pressure, submicron particle filtration efficiency, resistance to synthetic blood penetration and flammability tests.

ASTM F 2299 : Standard Test Method for Determining the First Efficiency of Substances Used in Medical Facial Masks to Penetration Using Particles Using Latex Spheres

This test method creates procedures to measure the initial particle filtration efficiency of materials used in medical face masks using monodispers aerosols. This test method uses luminous particle counts from 0.1 to 5.0 μm in size and air flow test speeds of 0.5 to 25 cm / s.

The test procedure measures the filtration efficiency by comparing the number of particles in the feed stream (upstream) with the filtrate (downstream).

ASTM F 1682: Standard Test Method for Resistance of Medical Face Masks to Penetration by Synthetic Blood (Horizontal Projection of Fixed Volume at a Known Velocity)

This test method is used to evaluate the resistance of medical face masks to penetration by the impact of a small volume (~2 mL) of a high-velocity stream of synthetic blood.

Medical face mask pass/fail determinations are based on visual detection of synthetic blood penetration.



ASTM F 2101: Standard Test Method for Evaluating the Bacterial Filtration Efficiency (BFE) of Medical Face Mask Materials, Using a Biological Aerosol of Staphylococcus aureus

This test method is used to measure the bacterial filtration efficiency (BFE) of medical face mask materials, employing a ratio of the upstream bacterial challenge to downstream residual concentration to determine filtration efficiency of medical face mask materials.

Necessity :

Characteristic	Level 1	Level 2	Level 3
Bacterial Filtration Efficiency (%)	% 95	% 98	% 98
Differential Pressure mm H ₂ O / cm ²	< 4,0	< 5,0	< 5,0
Submicron Particle Filtration Efficiency 0.1 micron (%)	% 95	% 98	% 98
Synthetic Blood Penetration Resistance (min.pressure in mmHg)	80	120	160
Combustion Class	Class 1	Class 1	Class 1

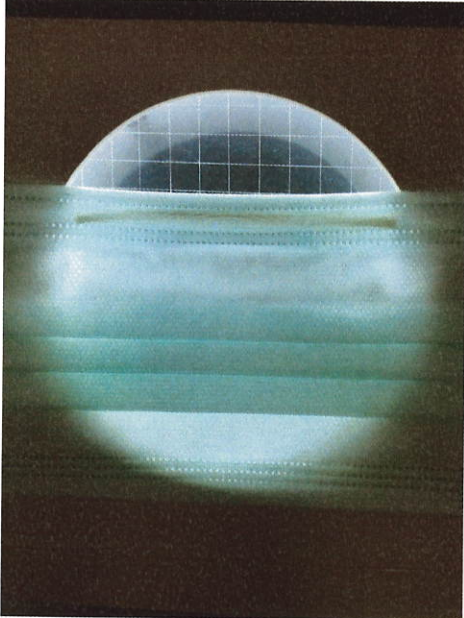


Test Results

Tests	Results			
	1	2	3	Avg
Liquid Resistance, mmHg	113	113	113	113
BFE	% 99,03	%99,08	%99,04	%99,05
PFE, 0.1 micron %	% 98,43	%98,41	%98,44	%98,43
Differential Pressure, mm H ₂ O / cm ²	4,1	4,1	4,1	4,1
Combustion Class	Class 1 Flare up	Class 1 Flare up	Class 1 Flare up	Class 1 Flare up



Images Under Test



End of Report

