

SHOPPY® Hygiene

TECHNICAL MATERIAL SHEET

DESCRIPTION

Perfumed film, with antibacterial and antiviral properties, light green coloured, HDPE.

Physical properties	Conditions	Test method	Unit of measurement	Value
Density	23°C	ISO 1183-1	g/cm ³	0,962
Melt Flow Index	190°C / 2.16 kg	ISO 1133-1	g/10minutes	0,25

Thermal properties	Conditions	Test method	Unit of measurement	Value
Melting point	10°C/min.	ISO 11357-1	°C	129,3

Mechanical properties	Conditions	Test method	Unit of measurement	Value
Yield strength in traction	50mm/min - MD	ISO 527-3	MPa	21
	50mm/min - TD	ISO 527-3	MPa	25
Tensile elongation at break	50mm/min - MD	ISO 527-3	%	340
	50mm/min - TD	ISO 527-3	%	740
Elmendorf tear strength	23°C - MD	ASTM D1922-15	N/mm	13
	23°C - TD	ASTM D1922-15	N/mm	96

Mentionated properties are typical for the film.



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PRODUCT INFORMATION

SHOPPY® IGIENE has been subjected to the following tests by an accredited laboratory:

Measurement of the activity of antimicrobial agents incorporated in polymeric or hydrophobic materials, according to the ASTM E2180-18 method, being able to carry out **high activity antibacterial: 99.9% abatement (24h)**.

Biological evaluation of medical devices (assessment of biocompatibility polymeric materials intended for medical applications, according to UNI EN 10993-1:2010; UNI EN ISO 10993-10:2013; UNI EN ISO 10993-18:2009, turn out to be **produced with materials suitable for medical applications (external parts of the human body,) with non-toxic treatments and without even less sensitisation reactions, irritation, skin reactivity (4h)**.

Evaluation of cytotoxicity according to ISO 10993-12:2012 + ISO 10993-5:2009 Annex A. results **non-cytotoxic** (24h extraction).

Measurement of antiviral activity on plastics and other non-porous surfaces according to ISO 21702:2019 method for:

- **SARS virus strain -cov-2_COV2019 ITALY/INMI1** being able to perform **high antiviral activity: reduction > 85% (6h)**.
- **virus strain H3N2- X-263B/20160726** being able to perform **high antiviral activity: reduction > 99% (6h) (*)**
- **Virus strain A/California/04/2009 (H1N1)** being able to perform **high antiviral activity antiviral: reduction > 99% (6h) (*)**

(*) Test carried out on neutral film.



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