

# ACRYLITE<sup>®</sup> Film 99524

## Product Data Sheet

### Product

ACRYLITE<sup>®</sup> Film 99524 is a highly transparent PMMA film with outstanding optical clarity and a graphic surface finish.

Due to its glossy and very smooth surface, ACRYLITE<sup>®</sup> Film 99524 is recommended for high quality printing.

ACRYLITE<sup>®</sup> Film 99524 performs satisfactorily for indoor applications retaining high light transmission over time.

### Application

As decorative film for Insert Mold Decorating (IMD), ACRYLITE<sup>®</sup> Film 99524 provides a unique high quality finish or decorative layer for injection moulding parts.

ACRYLITE<sup>®</sup> Film 99524 can be used to produce highly transparent parts where a clear and thin acrylic layer surface is needed as an economical alternative for injection moulding process.

High quality displays and graphic art panels are achieved with ACRYLITE<sup>®</sup> Film 99524.

### Processing

ACRYLITE<sup>®</sup> Film 99524 shows a very good printing performance to achieve high graphic printings.

The film shows good cutting characteristics via slitting and die-cutting processes; very good cutting edges can be achieved.

ACRYLITE<sup>®</sup> Film 99524 can be easily formed.

### Sales range

ACRYLITE<sup>®</sup> Film 99524 is supplied in thickness of 175, 250, 375, 500, and 750µm on rolls and 1mm thickness on sheet form.

## Technical data

Properties	Test method	Unit	Value
<b>Optical</b>			
Luminous transmittance $\tau_{D65}$	ISO 13468-2	%	92
UV transmittance (280 - 380 nm)	DIN EN 410:2011	%	-
Refractive Index	ISO 489	%	1,49
<b>Mechanical</b>			
Tensile stress at yield ( $\sigma_y$ )	ISO 527-3	MPa	56
Yield strain ( $\epsilon_y$ ) (175 $\mu$ m / 375 $\mu$ m)	ISO 527-3	%	7 / 10
Nominal strain at break ( $\epsilon_b$ ) (175 $\mu$ m / 375 $\mu$ m)	ISO 527-3	%	> 10 / >30
<b>Thermal</b>			
Glas transition temperatur Tg (DSC)	ISO 11357	°C	113
<b>Miscellaneous</b>			
Accelerated weathering resistance	ISO 4892-2 method A, cycle 1, 65% RH	h	3000 No visible change
Specific gravity	DIN 53479	g/cm <sup>3</sup>	1,17
Surface tension	DIN 53364	mN/m	50

This information and all further technical advice is based on our present knowledge and experience. However, it implies no liability or other legal responsibility on our part, including with regard to existing third party intellectual property rights, especially patent rights. In particular, no warranty, whether expressed or implied, or guarantee of product properties in the legal sense is intended or implied. We reserve the right to make any changes according to technical progress or further developments. The customer is not released from the obligation to conduct careful inspection and testing of incoming goods. Performance of the product described herein should be verified by testing, which should be carried out only by qualified experts in the sole responsibility of a customer. Reference to trade names used by other companies is neither a recommendation, nor does it imply that similar products should be used.

Evonik Industries is a worldwide manufacturer of PMMA products sold under the ACRYLITE® trademark in the Americas and under the PLEXIGLAS® trademark in the European, Asian, African, and Australian continents. ©Evonik Cyro LLC. All rights reserved.

Printed in the USA.

Evonik Cyro LLC  
299 Jefferson Road, Parsippany, NJ 07054 US  
Phone +1800 631 5384  
films@evonik.com www.acrylite.net