

# Hydrophobic MCE Membranes

*Easily die cut and customized for air  
and gas filtration*

Our hydrophobic MCE membrane is produced by casting mixed cellulose on PET nonwoven material, followed by surface modification to achieve a hydrophobic and oleophobic surface, which helps to resist water and low-surface tension liquids. Our membrane provides good strength for handling, and remains easy for die cutting and sealing. Various shapes are available to meet your unique application needs.



## APPLICATIONS

- Venting
- Air inlet
- Oil barrier
- Air and gas filtration

*Available in various shapes and customized sizes to meet your application needs.*

## FEATURES & BENEFITS

<b>Specially selected polymer</b>	Easily die cut for unusual shapes
<b>Nonwoven supported</b>	Provides good mechanical strength
<b>Microporous membrane based</b>	Offers good particle retention rate for air and gas filtration
<b>Oleophobic/hydrophobic treatment</b>	Repels various fluid, preventing permeation

## SPECIFICATIONS

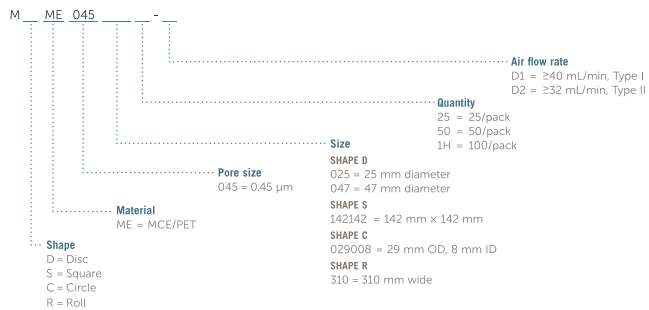
	Type I	Type II
Membrane material	MCE	
Support material	PET	
Sealing method	Ultrasonic, mechanical, heat	
Pore rating	0.45 $\mu\text{m}$	
Thickness	160 – 205 $\mu\text{m}$	
Air flow rate @ 10 kPa	$\geq 40$ mL/min $\text{mm}^2$	$\geq 32$ mL/min $\text{mm}^2$
Water holding pressure	15 kPa, 15 min	
Retention rating @ 0.3 $\mu\text{m}$	$\geq 95\%$	
Oil rating*	$\geq 7$	

\*According to AATCC118: Oil Repellency: Hydrocarbon Resistance Test

## DRAWINGS

### Product Options

Hydrophobic MCE Membrane: part number



MCE membranes are available in various shapes and customized sizes to meet your unique application needs. Please [contact Entegris](#) with your requirements.

## ORDERING INFORMATION

PART NUMBER	SHAPE	SIZE	AIR FLOW RATE	QUANTITY
MDME0450131H-D1	Disc	13 mm diameter	40 mL/min, Type I	100/pack
MDME0450131H-D2	Disc	13 mm diameter	32 mL/min, Type II	100/pack
MDME0450251H-D1	Disc	25 mm diameter	40 mL/min, Type I	100/pack
MDME0450251H-D2	Disc	25 mm diameter	32 mL/min, Type II	100/pack
MDME04503750-D1	Disc	37 mm diameter	40 mL/min, Type I	50/pack
MDME04503750-D2	Disc	37 mm diameter	32 mL/min, Type II	50/pack
MDME04504750-D1	Disc	47 mm diameter	40 mL/min, Type I	50/pack
MDME04504750-D2	Disc	47 mm diameter	32 mL/min, Type II	50/pack
MDME04505050-D1	Disc	50 mm diameter	40 mL/min, Type I	50/pack
MDME04505050-D2	Disc	50 mm diameter	32 mL/min, Type II	50/pack
MDME04506050-D1	Disc	60 mm diameter	40 mL/min, Type I	50/pack
MDME04506050-D2	Disc	60 mm diameter	32 mL/min, Type II	50/pack
MDME04509050-D1	Disc	90 mm diameter	40 mL/min, Type I	50/pack
MDME04509050-D2	Disc	90 mm diameter	32 mL/min, Type II	50/pack
MDME04514225-D1	Disc	142 mm diameter	40 mL/min, Type I	25/pack
MDME04514225-D2	Disc	142 mm diameter	32 mL/min, Type II	25/pack
MDME04529325-D1	Disc	293 mm diameter	40 mL/min, Type I	25/pack
MDME04529325-D2	Disc	293 mm diameter	32 mL/min, Type II	25/pack
MRME045310-D1	Roll	310 mm wide	40 mL/min, Type I	N/A
MRME045310-D2	Roll	310 mm wide	32 mL/min, Type II	N/A
MSME04525420325-D1	Square	254 mm x 203 mm	40 mL/min, Type I	25/pack
MSME04525420325-D2	Square	254 mm x 203 mm	32 mL/min, Type II	25/pack

#### FOR MORE INFORMATION

Please call your Regional Customer Service Center today to learn what Entegris can do for you. Visit [entegris.com](http://entegris.com) and select the [Contact Us](#) link to find the customer service center nearest you.

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Corporate Headquarters  
129 Concord  
Billerica, MA 01821  
USA

Customer Service  
Tel +1 952 556 4181  
Fax +1 952 556 8022  
Toll Free 800 394 4083

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