

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

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

SPECIFICATIONS

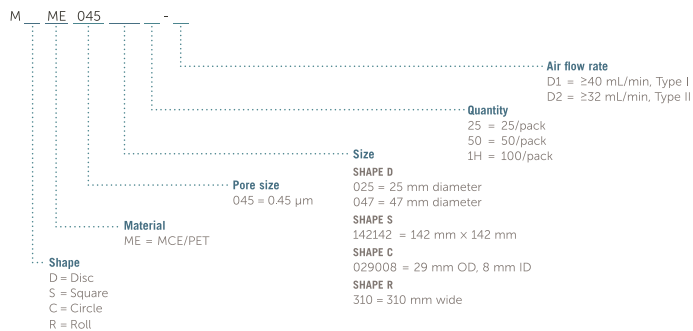
	Type I	Type II
Membrane material	MCE	
Support material	PET	
Sealing method	Ultrasonic, mechanical, heat	
Pore rating	0.45 μm	
Thickness	160 – 205 μm	
Air flow rate @ 10 kPa	$\geq 40 \text{ mL/min mm}^2$	$\geq 32 \text{ mL/min mm}^2$
Water holding pressure	15 kPa, 15 min	
Retention rating @ 0.3 μm	$\geq 95\%$	
Oil rating*	≥ 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 and select the [Contact Us](#) link to find the customer service center nearest you.

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