

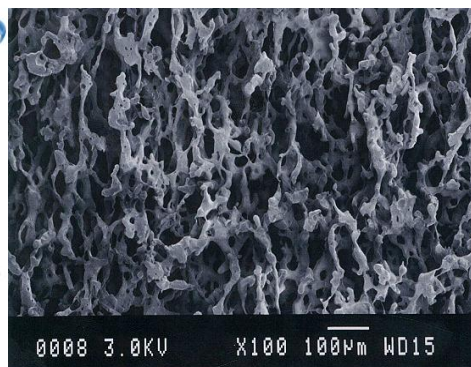
## Technical Bulletin

## MAPS Series

### Standard / Hydrophilic Grades

**Description:** MAPS is open-celled uniformly microporous foam. Compatible with any thermoplastic, MAPS technology allows complete control of foam cell size, porosity, density and also matrix polymer resin. Cell size ranges between 10 $\mu$ m to 400 $\mu$ m with porosity from 64% to 85% can be easily tailored. Thermoplastic matrix can be modified to enhance hydrophilic properties.

1. **FDA approval for hydrophilic grade (Agar, Mem Elution, Injection)**
2. **Abrasion resistance**
3. **Hydrolysis resistance**
4. **Chemical resistance (Alcohol , Acid, Solvent)**
5. **Controlled permeability (Cell-size and Porosity)**
6. **Tunable hydrophobic/hydrophilic**
7. **Tunable matrix polymer**
8. **Lint and particulate free – Ultra Clean**



Cell structure

Supply Format	Sheet/Cylinder/Tube/3D Mold
Cell size	10 – 400 $\mu$ m
Porosity	64 – 85%
Sheet size	300 × 450 mm
Thickness	1.0 – 8.0 mm

#### Headquarters:

1515 Equity Dr. Suite 200  
Troy, Michigan 48084  
Office: (248) 619-7031  
Fax: (248) 619-7032

## INOS Technologies

[www.inostech.com](http://www.inostech.com)

Email: [info@inostech.com](mailto:info@inostech.com)

#### Research Laboratory:

401 W. Morgan Street  
Ann Arbor, MI 48108  
Office: (734) 353-4322  
Fax: (734) 327-0626

**K 001**

Cell size 200µm, Porosity 80%

Material	K 001
Density g/cm <sup>3</sup> (pcf)	0.200 (12.49pcf)
Tensile Strength KPa (psi)	729 (105psi)
Elongation (%)	244
Hardness (ASKER-C)	22

**TM 38**

Cell size 10µm, Porosity 64%

Material	KTM38
Density g/cm <sup>3</sup> (pcf)	0.330(20.6pcf)
Tensile Strength KPa (psi)	1,807 (262psi)
Elongation (%)	555
Hardness (ASKER-C)	52

**VT 20**

Cell size 90µm, Porosity 80%

Material	VT 20
Density g/cm <sup>3</sup> (pcf)	0.170(10.6pcf)
Tensile Strength KPa (psi)	490 (71psi)
Elongation (%)	80
Hardness (ASKER-C)	11

**ST 15**

Cell size 50µm, Porosity 85%

Material	ST 15
Density g/cm <sup>3</sup> (pcf)	0.139(8.68pcf)
Tensile Strength KPa (psi)	1,046(152psi)
Elongation (%)	394
Hardness (ASKER-C)	6