

Tailored thermoplastic solutions for every application in a semiconductor fab

# SIMONA® SEMICON HIGHEST STANDARDS FOR HIGHTECH

When it comes to the technically and commercially demanding semiconductor industry, it is imperative that all materials deployed meet the highest standards of purity and reliability.

As one of the most comprehensive thermoplastic product portfolio available to semiconductor processors and fabricators, SIMONA® SEMICON has proved effective for all application steps. Among the compelling benefits are exceptional chemical resistance and high impact resistance, combined with features such transparent materials for high visibility.

Thus, all SIMONA® SEMICON products meet the exacting global standards of the semiconductor industry while being produced locally, resulting in perfect, customized solutions at your location, such as FM PVC being produced in three continents.

Our teams have a profound knowledge from A to Z which entables us to fully understand your requirements in materials, applications and logistics.

#### YOUR BENEFITS AT A GLANCE

#### **┿** FULL-SERVICE PROVIDER

wide range of sheets, pipes, rods and welding rods designed to satisfy semiconductor process applications without compromise

#### **★ MAXIMUM SAFETY FOR YOUR APPLICATION**

due to low-flammability plastics, withstanding temperatures from 140 to 425°F (60 to 218°C) and an excellent chemical resistance

#### + CUSTOMIZED SOLUTIONS WORLDWIDE

meets high global standards such as FM4910 and UL 94 V-0 flame test criteria

#### SATISFYING SEMICONDUCTOR PROCESS APPLICATIONS WITHOUT COMPROMISE



Process tanks, vessels, and components



**Water Treatment** 



Equipment, cabinetry and view windows



Fume hoods, ducting

# THE RIGHT SOLUTION FOR EVERY APPLICATION IN A SEMICONDUCTOR FAB



#### **Ventilation Equipment**

Fume hood, fume exhaust, gas and chemical blending/distribution systems:

- Sheets: PPs (EL), PVC Type II, PVDF, ECTFE, PFA
- Pipes and fittings: PPs (EL), PVDF

#### **Production Equipment**

#### Wet benches (cleanroom ambient):

- Sheets: FM4910 PVC (CRP-1), FM4910 PP (FRP-3), FM4910 CPVC Transparent, FM4910 PVDF, FM4910 ECTFE, FM4910 PFA
- Pipes and fittings: PVC GLAS, PFA hoses, PP-H AlphaPlus<sup>®</sup>, PVDF

#### **Transportation and Dosing**

#### Dosing cabinets/dosing pumps/ hook-up/piping:

- Sheets: FM4910 PVC (CRP-1), FM4910
   PP (FRP-3), FM4910 CPVC Transparent,
   PP-H AlphaPlus<sup>®</sup>, PP White
- Pipes and fittings: PP-H AlphaPlus<sup>®</sup>, PVDF, PVC GLAS, PFA hoses

#### **Distribution to Production Level**

#### VMB and Chemical Distribution units:

- Sheets: FM4910 PVC (CRP-1), FM4910 PP (FRP-3), FM4910 CPVC Transparent, PP-H AlphaPlus®, PP White
- Pipes and fittings: PP-H AlphaPlus®, PVDF, PVC GLAS, PFA hoses

#### Storage/Utility

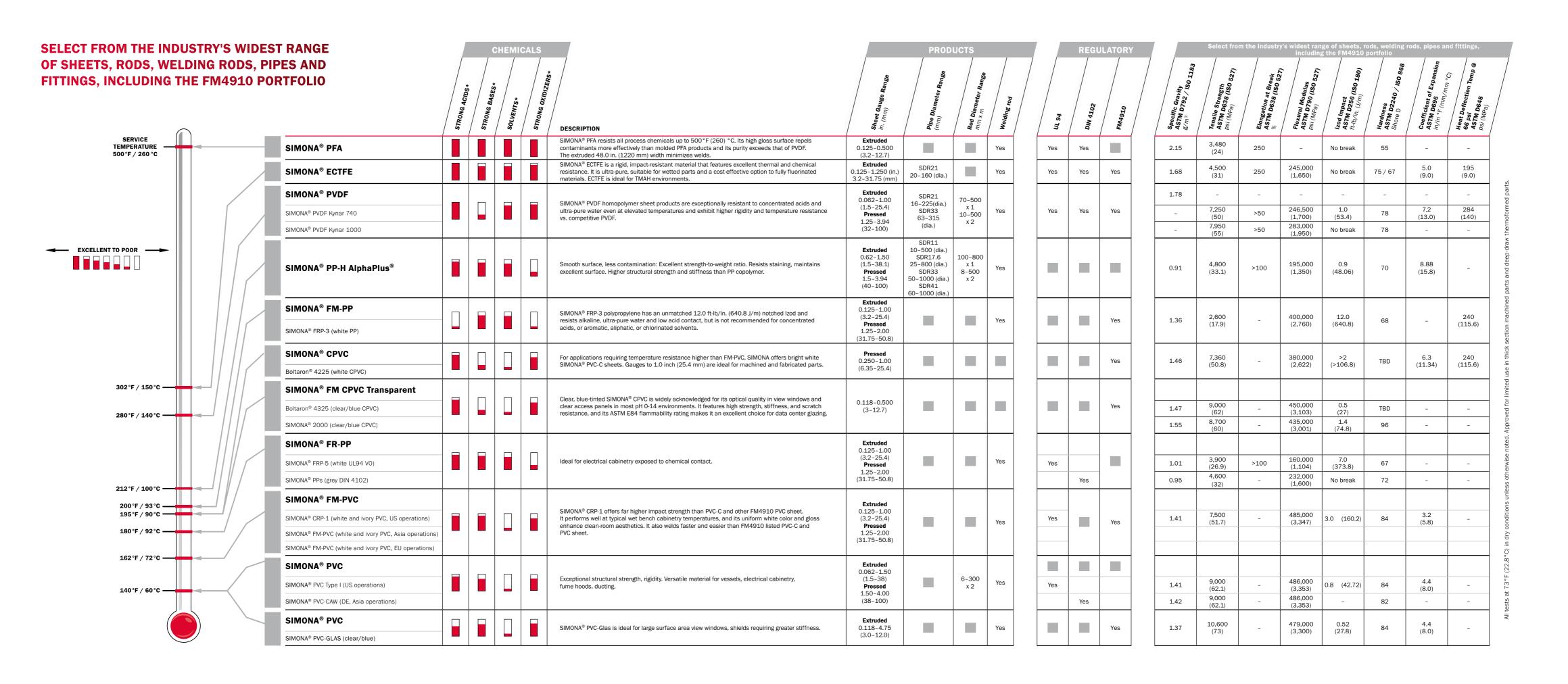
Storage and process tanks for process chemicals and contaminated wastewater (FRP tanks with backed fluoroplastics/thermoplastics):

- Sheets with backing: PVDF, ECTFE, PFA, PP-C
- Solid sheets: PP-H AlphaPlus®, PP-C, PE 100

#### **Components of Water Treatment**

Process Water Treatment and Wastewater Treatment:

- Sheets: PE 100, PP-H AlphaPlus<sup>®</sup>, PP-C
- Pipes and fittings: PP-H AlphaPlus®, PVDF, PE 100, PVC GLAS, PFA hoses



#### FLEXIBILITY AND SUPPORT LIKE NOWHERE ELSE

Our service network goes above and beyond industry standards. For the efficient management of your project, we connect you with various SIMONA services.

#### Globalisation

SIMONA® SEMICON offers the most complete product portfolio in the Americas, Europe and Asia. Our products include semi-finished sheets, rods and welding rods, FM4910 materials including FM-PP, FM-PVC and fluoropolymers and PP and PVDF pipes and fittings.

#### **Technical Service Center**

A global consulting service provided by our Technical Service Center and our Customer Service unit. Includes project planning, the selection of products and materials and technical consulting during on-site planning.

#### **SIMONA Academy**

A highly professional and trusted partner when it comes to imparting specialist knowledge in the field of plastics engineering.

#### **SIMCHEM**

Online database with details of the chemical resistance with over 4,000 results.



Get connected with our SIMONA Service Network Team!

≤ semicon@simona-group.com



## YOUR GLOBAL PARTNER FOR CUSTOMIZED SOLUTIONS – WORLDWIDE

Based on your specific requirements, we will work with you to design a tailored thermoplastic solution for every application step in the semiconductor fab which matches your highest safety standards. Our team of experts around the globe looks forward to assisting you as a trusted partner with decades of experience.

## **EXCELLENT ADVICE:**FROM PLANNING TO COMMISSIONING AND TRAINING

Our global service and support network is available to you worldwide, covering every aspect from planning to commissioning – comprehensive support and exceptional service guaranteed. This is complemented by global training opportunities for the purpose of further enhancing operational safety at your sites.

# GLOBAL THERMOPLASTIC SOLUTIONS

Please feel free to get in touch with your regional expert to assess the potential of SIMONA® SEMICON solutions at your semiconductor fab.

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