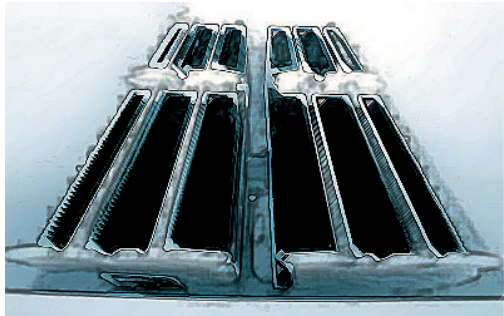


Engineering Plastics for Photovoltaic Production Equipment



Wafer Handling in Etching and Cleaning | Batch Production

INDUSTRY TRENDS

- Increase productivity through higher automation in production and handling
- Increase output: more wafers per holder
- More aggressive chemicals to increase production output

QUADRANT ANSWERS

- Dimensionally stable materials resistant to wet chemical environments over wide temperature range
- Increased stiffness for larger structural parts

CUSTOMER BENEFITS

- Exact positioning of wafers in high speed robotics
- Lower breakage rates - higher yields
- Higher process output

Quadrant provides high performance plastic as rod, plate or tube for machining or as finished parts. Over 60 years of expertise provides the platform for bringing your concept to the production line.

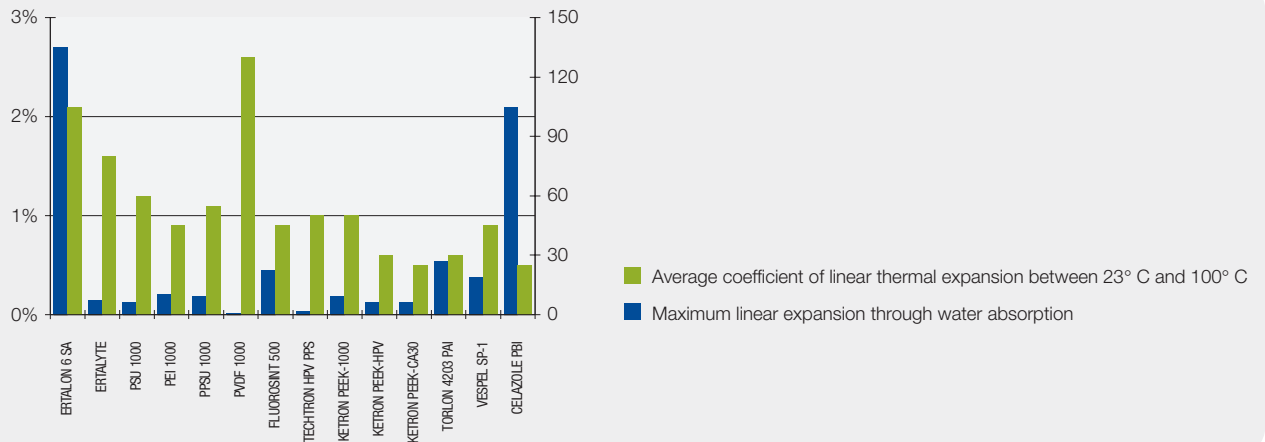
Let us help you build the optimum machine to increase your output, up-time and efficiency.



QUADRANT

You inspire ... we materialize®

QUADRANT PORTFOLIO OF DIMENSIONAL STABLE MATERIALS



KETRON PEEK CA 30

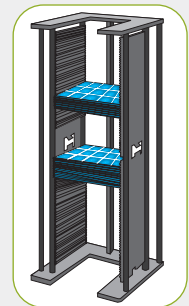
Solves chemical and dimensional problems in wafer holder and combs

Challenges:

- Harsh acids and alkaline solutions
- Need for good structural strength
- Dynamic load causing wear and frictional sliding problems

Solution:

- Ketron PEEK CA 30 used for both end caps and sides to provide a unit with
- consistent and improved dimensional stability
- process chemicals resistance



Benefits:

With its inherent resistance to acids and alkaline process chemicals, Ketron PEEK CA 30 considerably extends the parts' life. Using Ketron PEEK CA 30 also for the side walls provides the same expansion, moisture absorption and overall dimensional stability over a wide temperature range as the holders. The result is a complete unit that holds consistent and precise tolerances overall.

Learn more online at www.quadrantplastics.com

Quadrant has extensive product and machining resources available online. Our website is a portal to a wealth of technical data and the easiest way to engage our application specialists. Our team stands ready to help offer solutions to your toughest problems.

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