



# ARLON® 1287 LI

## Carbon-Fiber, Reinforced Polyketone-based, High Performance Components

### PLASTIC COMPONENTS

Greene, Tweed offers precision plastic components for a variety of demanding semiconductor applications. These components are made from a full range of high-performance plastic materials including Arlon® 1287 LI, which is ideal for applications requiring exceptionally high physical properties, wear resistance and chemical compatibility.

### FEATURES & BENEFITS

- Excellent physical properties
- Excellent wear resistance
- Excellent chemical compatibility
- Impact resistance
- High performance over wide range of operating conditions

### APPLICATIONS

- CMP retainer rings
- Guides
- Supports



TYPICAL PROPERTIES		
Physical	ASTM Method	Typical Value
Color		Black
Specific Gravity	D792	1.47
Hardness, Shore D	D2240	93
Water Absorption, 24 hrs., %	D570	0.08
Mechanical		
Tensile Strength, psi (kPa)	D638	35,100 (242,000)
Elongation, %	D638	1.1
Flexural Strength, psi (kPa)	D790	50,000 (344,800)
Flexural 0.5% Secant Modulus, psi (MPa)	D790	4,040,000 (27,900)
Coefficient of Dynamic Friction PV=12,600 psi ft/min	G77	0.14
Wear Factor, in <sup>3</sup> -min./lb-ft-hr x 10 <sup>-10</sup>	G77	120
Thermal		
Heat Distortion Temperature Under Load, @ 264 psi, °F (°C)	D648	600 (316)
Coefficient of Thermal Expansion, <300°F (149°C), in./in./°F x 10 <sup>-6</sup>	D696	5
Coefficient of Thermal Expansion, >300°F (149°C), in./in./°F x 10 <sup>-6</sup>	D696	12

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#### Our Distributor

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*Statements and recommendations in this publication are based on our experience and knowledge of typical applications of this product and shall not constitute a guarantee of performance nor modify or alter our standard warranty applicable to such products.*

*Prior to actual use it is recommended compatibility tests be run to determine suitability in a specific application. This is critical where failure could result in injury or damage. A regular program of inspection and replacement should be implemented. Greene, Tweed technical personnel are available to help with a recommendation.*