

ARLON[®] 1287 LI Carbon-Fiber, Reinforced Polyketone-based, High Performance Components

PLASTIC COMPONENTS

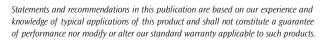
Greene, Tweed offers precision plastic components for a variety of demanding semiconductor applications. These components are made from a full range of high-performance plastic materials including Arlon® 1287 LI, which is ideal for applications requiring exceptionally high physical properties, wear resistance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



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.



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, in3-min./lb-ft-hr x 10 ⁻¹⁰	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 ⁻⁶	D696	5
Coefficient of Thermal Expansion, >300°F (149°C), in./in./°F x 10°	D696	12

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