



ARLON® 1260

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® 1260, which is ideal for applications requiring high impact, wear and chemical resistance.

FEATURES & BENEFITS

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

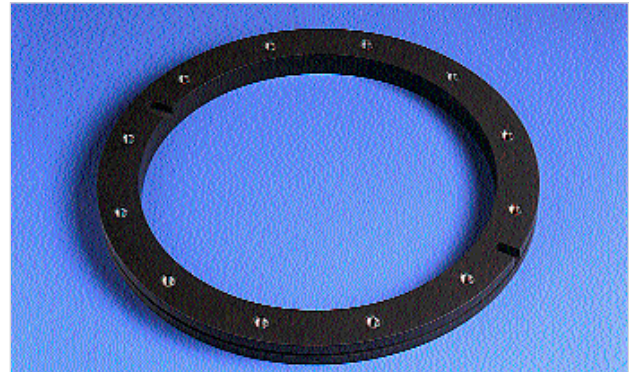
APPLICATIONS

- CMP retainer rings
- Supports
- Guides

TYPICAL PROPERTIES	
Physical	Typical Value
Color	Black
Specific Gravity	1.41
Melt Point (Pellet), °F (°C)	649 (343)
Hardness, Shore D	92
Water Absorption, 24 hrs., %	0.08
Mechanical	
Tensile Break Strength, psi	33,400
Elongation, %	1.7
Flexural Strength, psi	50,300
Flexural 0.5% Secant Modulus, psi	2,750,000

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.



TYPICAL PROPERTIES (cont.)	
Mechanical (cont.)	Typical Value
Compressive Strength @ Break, psi	38,000
Coefficient of Dynamic Friction PV=12,600 psi ft/min	0.18
Wear Factor, in ³ -min./lb-ft-hr x 10 ⁻¹⁰	230
Shear Strength @ Room Temperature	
Axial, psi	17,400
Transverse, psi	13,900
Shear Strength @ 450°F (232°C)	
Axial, psi	4,150
Transverse, psi	2,800
Izod Impact Strength	
Notched, ft-lb/inch	1.65
Unnotched, ft-lb/inch	7.60
Thermal	
Heat Distortion Temperature Under Load, @ 264 psi, °F (°C)	600 (316)
Coefficient of Thermal Expansion, <300°F (149°C), inch/inch per °F x 10 ⁻⁵	0.7
Coefficient of Thermal Expansion, >300°F (149°C), inch/inch per °F x 10 ⁻⁵	1.7

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