

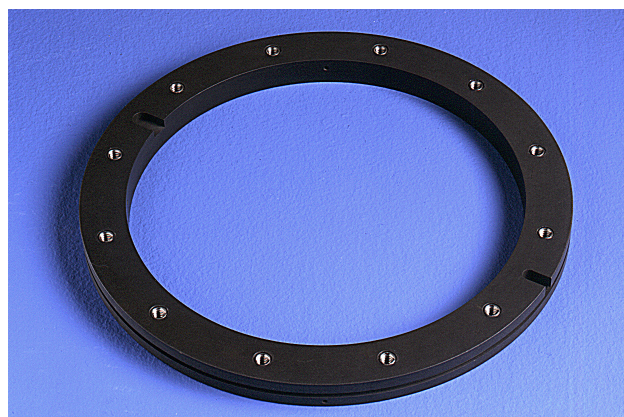
Arlon® 1260

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 and wear and chemical resistance.

Typical Properties	
Physical Properties	Typical
Color	Black
Specific Gravity	1.41
Melt Point (Pellet), °F (°C)	649 (343)
Hardness, Shore D	92
Water Absorption, 24 Hours, %	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
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



Typical Properties (continued)	
Thermal	Typical
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

Features and 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