

Greene Tweed Arlon® 1286 Polyketone, Carbon Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK)

Material Notes:

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® 1286, which is ideal for applications requiring exceptionally high physical properties, wear resistance and chemical compatibility. Applications: CMP retainer rings Guides Supports Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Arlon-1286-Polyketone-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.49 g/cc	1.49 g/cc	ASTM D792
Water Absorption	0.10 %	0.10 %	24 hrs, 73°F

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	93	93	ASTM D2240
Tensile Strength at Break	260 MPa	37700 psi	ASTM D368
Elongation at Break	1.3 %	1.3 %	ASTM D638
Flexural Strength	392 MPa	56800 psi	ASTM D790
Flexural Modulus	27.9 GPa	4040 ksi	Flexural 0.5% Secant Modulus; ASTM D790
Shear Strength	95.98 MPa	13920 psi	Transverse; ASTM D732
	135.6 MPa	19660 psi	Axial; ASTM D732
Coefficient of Friction, Dynamic	0.14	0.14	PV=12600 psi-ft./min.; ASTM G77

Thermal Properties	Metric	English	Comments
CTE, linear	0.900 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	0.500 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM E228
	@Temperature ≤ 149 $\text{Å}^\circ\text{C}$	@Temperature ≤ 300 $\text{Å}^\circ\text{F}$	
	2.16 $\mu\text{m/m}\cdot\text{Å}^\circ\text{C}$	1.20 $\mu\text{in/in}\cdot\text{Å}^\circ\text{F}$	ASTM E228
	@Temperature ≥ 149 $\text{Å}^\circ\text{C}$	@Temperature ≥ 300 $\text{Å}^\circ\text{F}$	
Deflection Temperature at 1.8 MPa (264 psi)	316 $\text{Å}^\circ\text{C}$	600 $\text{Å}^\circ\text{F}$	

Descriptive Properties	Value	Comments
Color	Black	

Contact Songhan Plastic Technology Co.,Ltd.

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