

Greene Tweed Arlon® 1263 PEEK, Carbon Filled

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Carbon Fiber Filled

Material Notes:

Arlon® is a tough, high-temperature, semi-crystalline, thermoplastic presenting a unique combination of mechanical, thermal, chemical and electrical properties. Greene, Tweed uses several proprietary manufacturing and machining processes to ensure that Arlons properties consistently outperform the competition. Greene, Tweed offers several different Arlon materials, and all provide high tensile strength and elongation properties, excellent shear strength and creep resistance, outstanding fatigue resistance, broad chemical and radiation resistance, and no susceptibility to hydrolysis (steam/hot water). Our engineers work one on one with customers to find the right solution for each specific application. Information provided by Greene Tweed.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Greene-Tweed-Arlon-1263-PEEK-Carbon-Filled.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.41 g/cc	1.41 g/cc	ASTM D792
Deformation	0.060 %	0.060 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	108	108	ASTM D785
Hardness, Shore D	92	92	ASTM D2240
Tensile Strength at Break	230 MPa	33400 psi	ASTM D368
Elongation at Break	1.9 %	1.9 %	ASTM D638
Flexural Strength	347 MPa	50300 psi	ASTM D790
Flexural Modulus	19.0 GPa	2750 ksi	Flexural 0.5% Secant Modulus; ASTM D790
Compressive Yield Strength	>= 4.14 MPa	>= 600 psi	
Compressive Strength	262 MPa	38000 psi	ASTM D695
Shear Strength	95.8 MPa	13900 psi	Transverse; ASTM D732
	120 MPa	17400 psi	Axial; ASTM D732
Secant Modulus	21.72 GPa	3150 ksi	Tensile 0.5% Secant Modulus; ASTM D638
Coefficient of Friction, Dynamic	0.18	0.18	PV=12600 psi-ft./min.; ASTM G77

Thermal Properties	Metric	English	Comments
	12.6 Åµm/m-Å°C	7.00 Åµin/in-Å°F	

CTE linear Thermal Properties	Metric @ Temperature <= 149 °C	English @ Temperature <= 300 °F	ASTM E228 Comments
	30.6 µm/m-°C	17.0 µin/in-°F	ASTM E228
	@Temperature >= 149 °C	@Temperature >= 300 °F	

Descriptive Properties	Value	Comments
Color	Black	

Contact Songhan Plastic Technology Co.,Ltd.

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