

Greene Tweed Arlon® 1330 PEEK

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

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-1330-PEEK.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 g/cc	1.38 g/cc	ASTM D792
Deformation	0.14 %	0.14 %	ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	96	96	ASTM D785
Hardness, Shore D	85	85	ASTM D2240
Tensile Strength at Break	86.9 MPa	12600 psi	ASTM D368
Tensile Strength, Yield	89.6 MPa	13000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	145 MPa	21100 psi	ASTM D790
Flexural Modulus	3.69 GPa	535 ksi	Flexural 0.5% Secant Modulus; ASTM D790
	0.2031 GPa	29.46 ksi	
	@Temperature 204 Å°C	@Temperature 400 Å°F	
Compressive Strength	107 MPa	15500 psi	ASTM D695
Shear Strength	71.7 MPa	10400 psi	Axial; ASTM D732
	71.7 MPa	10400 psi	Transverse; ASTM D732
	14.3 MPa	2080 psi	
	@Temperature 288 Å°C	@Temperature 550 Å°F	
	48.7 MPa	7070 psi	

Mechanical Properties	Metric	English	Comments
	68.3 MPa @Temperature 149 Â°C	9900 psi @Temperature 300 Â°F	
	@Temperature 65.6 Â°C	@Temperature 150 Â°F	
Secant Modulus	3.59 GPa	521 ksi	Tensile 0.5% Secant Modulus; ASTM D638
Coefficient of Friction, Dynamic	0.15	0.15	PV=12600 psi-ft./min.; ASTM G77
K (wear) Factor	40.3 x 10 ⁻⁸ mmÂ³/N-M	20.0 x 10 ⁻¹⁰ inÂ³- min/ft-lb-hr	ASTM G77

Thermal Properties	Metric	English	Comments
CTE, linear	41.4 Âµm/m-Â°C	23.0 Âµin/in-Â°F	ASTM E228
	@Temperature <=149 Â°C	@Temperature <=300 Â°F	
	148 Âµm/m-Â°C	82.0 Âµin/in-Â°F	ASTM E228
	@Temperature >=149 Â°C	@Temperature >=300 Â°F	
Deflection Temperature at 1.8 MPa (264 psi)	166 Â°C	330 Â°F	

Descriptive Properties	Value	Comments
Color	Tan	

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