

Greene Tweed Arlon® 2000 Polyketone

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

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-2000-Polyketone.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.32 g/cc	1.32 g/cc	ASTM D792

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	90	90	ASTM D2240
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D368
	49.6 MPa	7200 psi	
	@Temperature 149 Â°C	@Temperature 300 Â°F	
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
Elongation at Break	14 %	14 %	ASTM D638
Tensile Modulus	4.48 GPa	650 ksi	ASTM D638
Flexural Strength	186 MPa	27000 psi	ASTM D790
	27.6 MPa	4000 psi	
	@Temperature 260 Â°C	@Temperature 500 Â°F	
	110 MPa	16000 psi	
	@Temperature 149 Â°C	@Temperature 300 Â°F	
Flexural Modulus	4.48 GPa	650 ksi	ASTM D790
	3.63 GPa	526 ksi	
	@Temperature 149 Â°C	@Temperature 300 Â°F	
Shear Strength	26.2 MPa	3800 psi	ASTM D732
	@Temperature 260 Â°C	@Temperature 500 Â°F	

Mechanical Properties	Metric	English	Comments
	98.6 MPa	14300 psi	ASTM D732
	@Temperature 149 Â°C	@Temperature 300 Â°F	
	98.6 MPa	14300 psi	ASTM D732
	@Temperature 23.9 Â°C	@Temperature 75.0 Â°F	

Descriptive Properties	Value	Comments
Color	Natural	

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