

## Greene Tweed Avalon<sup>®</sup> 9 PTFE, Graphite Filled

Category : Polymer , Thermoplastic , Fluoropolymer , PTFE , Polytetrafluoroethylene (PTFE), Conductive Carbon Filled

### Material Notes:

Products made from Avalon<sup>®</sup> thermoplastics are constructed from proprietary high-performance reinforced PTFE material. Greene, Tweeds Avalon thermoplastics, available in grades ranging from virgin to reinforced, exhibit low friction while being chemically inert. Avalon thermoplastics can be custom designed to for each unique application. Information provided by Greene Tweed.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Greene-Tweed-Avalon-9-PTFE-Graphite-Filled.php](http://www.lookpolymers.com/polymer_Greene-Tweed-Avalon-9-PTFE-Graphite-Filled.php)

Physical Properties	Metric	English	Comments
Specific Gravity	2.12 g/cc	2.12 g/cc	ASTM D792
Deformation	8.0 %	8.0 %	2000 psi 78 <sup>°</sup> F; ASTM D621
	14 %	14 %	1000 psi 300 <sup>°</sup> F; ASTM D621

Mechanical Properties	Metric	English	Comments
Hardness, Shore D	55	55	ASTM D2240
Tensile Strength, Yield	17.9 MPa	2600 psi	ASTM D1457
Elongation at Break	225 %	225 %	ASTM D1457
Compressive Strength	23.4 MPa	3400 psi	ASTM D695
Shear Strength	14.5 MPa	2100 psi	ASTM D732
	@Temperature 149 <sup>°</sup> C	@Temperature 300 <sup>°</sup> F	
	15.5 MPa	2250 psi	ASTM D732
	@Temperature 93.3 <sup>°</sup> C	@Temperature 200 <sup>°</sup> F	
	16.5 MPa	2400 psi	
@Temperature 65.6 <sup>°</sup> C	@Temperature 150 <sup>°</sup> F		
18.6 MPa	2700 psi	ASTM D732	
@Temperature 37.8 <sup>°</sup> C	@Temperature 100 <sup>°</sup> F		
19.3 MPa	2800 psi	ASTM D732	
@Temperature 26.7 <sup>°</sup> C	@Temperature 80.0 <sup>°</sup> F		
Coefficient of Friction, Dynamic	0.070	0.070	33.3 psi @ 150 fpm

<b>Coefficient of Friction, Static</b> Mechanical Properties	<b>0.050</b> Metric	<b>0.050</b> English	<b>33.3 psi</b> Comments
K (wear) Factor	$60.4 \times 10^{-8} \text{ mm}^3/\text{N-M}$	$30.0 \times 10^{-10} \text{ in}^3/\text{min/ft-lb-hr}$	

<b>Descriptive Properties</b>	<b>Value</b>	<b>Comments</b>
Color	Dark Gray to Black	

## Contact Songhan Plastic Technology Co.,Ltd.

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