

# Avalon 09

Polytetrafluoroethylene  
Greene, Tweed & Co.

Message:

Avalon 09 is a Polytetrafluoroethylene (PTFE) product filled with graphite fiber. It is available in North America.

General Information			
Filler / Reinforcement	Graphite Fiber		
Appearance	Black		
	Dark Grey		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.14	g/cm <sup>3</sup>	ASTM D1457
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	60		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	17.9	MPa	ASTM D1457
Tensile Elongation (Yield)	230	%	ASTM D1457
Compressive Strength (25% Strain)	23.4	MPa	ASTM D695
Shear Strength			ASTM D732
27°C	19.3	MPa	
38°C	18.6	MPa	
66°C	16.5	MPa	
93°C	15.5	MPa	
149°C	14.5	MPa	
Coefficient of Friction			
vs. Itself - Dynamic <sup>1</sup>	0.070		
vs. Itself - Static <sup>2</sup>	0.050		
Deformation Under Load			ASTM D621
26°C, 14 MPa	8.00	%	
149°C, 6.9 MPa	14.0	%	
Wear Factor	60	10 <sup>-8</sup> mm <sup>3</sup> /N·m	ASTM D3702
NOTE			
1.	33.3 psi, 150 fpm		
2.	33.3 psi		

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