

# Avalon 56 HP

Polytetrafluoroethylene

Greene, Tweed & Co.

## Message:

Greene, Tweed offers precision plastic components designed for a variety of demanding semiconductor applications. Avalon® 56 HP—a high-performance plastic based on the latest generation modified PTFE—is ideal for improving the performance of wet wafer processing systems that require exceptional chemical resistance and very low extractable levels. In addition, Avalon 56 HP provides a very high level of purity, a wide temperature operating range, and superior low friction and dielectric properties.

General Information			
Features	Good Chemical Resistance		
	Good Compressive Strength		
	Good Creep Resistance		
	High Elasticity		
	Low Extractables		
Uses	Gaskets		
	Seals		
Agency Ratings	FDA Unspecified Rating		
	USP Class VI		
Appearance	White		
Forms	Pellets		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	2.17	g/cm <sup>3</sup>	ASTM D1457
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	34.5	MPa	ASTM D638
Tensile Elongation (Yield)	450	%	ASTM D1457
Flexural Modulus - 0.5% Secant	552	MPa	ASTM D790
Shear Strength			ASTM D732
27°C	16.5	MPa	
204°C	9.31	MPa	
Coefficient of Friction			
vs. Itself - Dynamic <sup>1</sup>	0.080		
vs. Itself - Static <sup>2</sup>	0.050		
Deformation Under Load (26°C, 14 MPa)	3.20	%	ASTM D621
Wear Factor	5000	10 <sup>-8</sup> mm <sup>3</sup> /N·m	ASTM G77
Thermal	Nominal Value	Unit	Test Method
Melting Temperature <sup>3</sup>	330	°C	
CLTE - Flow (< 149°C)	9.9E-5	cm/cm/°C	ASTM D696

## NOTE

- |    |                      |
|----|----------------------|
| 1. | PV=5000 psi ft/min   |
| 2. | 33.3 psi and 150 fpm |
| 3. | Powder               |

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## Recommended distributors for this material

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