

Powder Properties

MEASUREMENT	CONDITION	VALUE
Density - Tap	ASTM D4164	0.44 g/cm ³
Melting Point: T _m	DSC	192 °C (378 °F)

Sintered Properties

MEASUREMENT	METHOD/CONDITION	AS SINTERED		Infiltrated with FlexSeal (8-DIP Process)	
		METRIC	US	METRIC	US
Tensile Strength, Ultimate	ASTM D638	1.8 MPa	262 psi	2.3 MPa	335 psi
Tensile Modulus	ASTM D638	7.4 MPa	1080 ksi	9.2 MPa	1340 psi
Elongation at Break	ASTM D638	110%	110%	151 %	151 %
Flexural Modulus (@ 23 °C)	ASTM D790	5.9 MPa	860 ksi	15.4 kN/m	1130 psi
Initial Tear Resistance (Die C @ 23 °C)	ASTM D624	15.1 kN/m	86 lb/in	15.4 kN/m	88 lb/in
Abrasion Resistance Taber, CS-17 wheel, 1 kg load	ASTM D4060	83.5 mg (per 1000 cycles)			
Bursting Strength (straight) @ 23°C (25mm ID x 2mm thick x 300 mm long hose)	No Infiltration Two-Part Polyurethane Infiltration FlexSeal Infiltration	0 MPa	0 psi	0.21 MPa 0.076 MPa	>30psi 11psi
Shore A Hardness @ 23°C	ASTM D2240	45-75		55-80	

Electrical Properties

Volume Resistivity	ASTM D257	1.3 X 10 ¹⁴ ohm-cm	
Surface Resistivity	ASTM D257	1.1 X 10 ¹⁴ ohm	
Dissipation Factor, 1 KHz	ASTM D150	0.003	
Dielectric Constant, 1 KHz	ASTM D150	1.85	
Dielectric Strength	ASTM D149	1.9 kV/mm	47 kV/in