

TECHNICAL DATA SHEET



GRADE CODE: VGS-BR-40-F

Product: 40% Bronze Filled PTFE - Polytetrafluoroethylene

Sr. No.	Parameter	Standard	Value
1	Colour	Visual	Brown
2	Density	ASTM-D-792	2.9~3.1 gm/cc
3	Tensile Strength	ASTM-D-638	3150 PSI (Min) / 225 kg/cm ² (Min)
4	Elongation	ASTM-D-638	225 % (Min)
5	Compressive Strength	ASTM-D-695	3150 PSI (Min) / 225 kg/cm ² (Min)
6	Compressive Modulus	ASTM-D-695	70000 PSI (Min) / 5000 kg/cm ² (Min)
7	Flexural Strength	ASTM-D-790	1400 PSI (Min) / 100 kg/cm ² (Min)
8	Flexural Modulus	ASTM-D-790	192500 PSI (Min) / 13750 kg/cm ² (Min)
9	Hardness	ASTM-D-2240	62~68 Shore D (Min)
10	Service Temperature	ASTM-D-648	250C
11	Water Absorption	ASTM-D-570	< 0.01 %
12	Dielectric Strength	ASTM-D-149	Conductive
13	FDA Compliance	21 CFR.177.1550 (e1)(e3)	Yes

Service Conditions (Properties):

- High compressive strength.
- Excellent wear resistance improved under load & permanent deformation.
- Better thermal / electrical conductivity.
- Good chemical resistance.
- Very low cold flow.

Applications:

Wear Strips, Machine tool liners, hydraulic seals.

Note: The information contained herein are typical values intended for reference and comparison purposes only. They should NOT be used as a basis for design specifications or quality control. All values at 23C unless otherwise noted.