



15 Glass Typical Properties - Physical Forms

Composition by Weight % and Filler Description

85% Virgin PTFE
 15% ± 1% E Glass Fiber

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE - LF	GRADE - HDFF	GRADE - E
Specific Gravity	ASTM D 4745	~	2.20 ± 0.05	2.20 ± 0.05	2.20 ± 0.05
Tensile Strength*	ASTM D 4745	Mpa	25	17	17
Elongation*	ASTM D 4745	%	250	200	200
Bulk Density	ASTM D 4745	g/l	-	600 - 800	625 Min
Hardness	ASTM D 2240	Shore D	60 +/- 5	60 +/- 5	60 +/- 5
Diametric Shrinkage	ASTM D 4745	%	2.0 ± 0.5	2.0 ± 0.5	2.0 ± 0.5
Flow	Poly-Smith	Sec/50 g	-	3	5
Average Particle Size	Poly-Smith	µm	-	600 - 900	600 - 900

* cross direction

Recommended Molding Pressure	30 - 35 Mpa
Max Sintering Temperature	370 °C

General Application:

Recommended for valve seats, gaskets, seals and components requiring resistance to creep and chemical attack. Suitable as a bearing material for low PV values. At high loads and speeds the wear increases and there is a risk of scoring shafts.

Safety

This product is a fluoropolymer so normal precautions should be followed.

DISCLAIMER: the information in this Safety Data Sheet is believed to be correct as of the date issued. No warranties, expressed or implied, including but not limited to, any implied warranty or merchantability or fitness for a particular purpose or course of performance or usage of trade.