TECHNICAL DATA SHEET

23 Carbon 2 Graphite - Physical Forms

Composition by Weight % and Filler Description

75% Virgin PTFE
23% ± 2% Carbon Coke
2% ± 1% Graphite Powder

MECHANICAL PROPERTIES	TEST METHOD	UNITS	Low Flow	HDFF	Presintered
Specific Gravity	ASTM D 4745	~	1.95 - 2.15	1.95 - 2.15	1.95 - 2.15
Tensile Strength*	ASTM D 4745	Mpa	18	18	14
Elongation*	ASTM D 4745	%	120	100	55
Bulk Density	ASTM D 4745	g/l	~	600	600
Hardness	ASTM D 2240	Shore D	58 - 68	58 - 68	58 - 68
Diametric Shrinkage	ASTM D 4745	%	2.5 +/- 1.0	2.5 +/- 1.0	2.5 +/- 1.0
Flow	Poly-Smith	Sec/50 g	-	3	3
Average Pellet Size Max	Poly-Smith	µm	-	700 - 900	700 - 900

* cross direction

Recommended Moulding Pressure	35 Mpa
Max Sintering Temperature	370ºC

General Application:

This grade is for applications involving hydrofluoric acid. It has a higher wear rate. It has proven succesful as piston ring material, particulary in oil-free compressors. The graphite powder content reduces friction and improves the physical properties.

Safety

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