



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	HDF	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	370°C

General Application:

This grade is for applications involving hydrofluoric acid. It has a higher wear rate. It has proven successful as piston ring material, particularly 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.

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.