



## 15 Graphite - Physical Forms

## Composition by Weight % and Filler Description

85% Virgin PTFE

15% ± 1% Graphite Powder

MECHANICAL PROPERTIES	TEST METHOD	UNITS	GRADE - LF	GRADE - HDFS	GRADE - E
Specific Gravity	ASTM D 4894	~	2.16 ± 0.02	2.16 ± 0.02	2.16 ± 0.02
Tensile Strength*	ASTM D 4894	Mpa	23	18	16
Elongation*	ASTM D 4894	%	250	180	140
Bulk Density	ASTM D 4894	g/l	-	700	650
Hardness	NEEDLE	Shore D	61 +/- 3	61 +/- 3	61 +/- 3
Diametric Shrinkage	INTERNAL	%	2.5 ± 0.5	2.5 ± 0.5	2.5 ± 0.5
Flow	INTERNAL	Sec/50 g	-	3	4
Average Particle Size	Internal	µm	-	400 - 600	400 - 700

\* cross direction

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

## General Application:

This compound is used against aggressive and corrosive agents. It is used in hot water and steam applications. It has a good heat conductivity. It has permission for usage in food application. The wear characteristics are approximately 5 times better than virgin PTFE. Low coefficient of friction compared to CAR/BZ compounds. Low abrasion when used against soft metal counterparts. Low hardness compared to standard compounds as CAR/BZ etc.

## Safety

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

## Technical Information

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. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of use or application and shall not establish a legally valid contractual relationship.