

F540 (food)

MATERIAL	polytetrafluoroethylene, compounded material with aromatic polyester
DESCRIPTION	Polytetrafluoroethylene, a high-molecular-weight polymer made entirely of fluorine and carbon, is a fluorocarbon solid. PTFE is hydrophobic, meaning that neither water nor things containing water can bind to it. This is because fluorocarbons only exhibit weak London dispersion forces since fluorine has a poor electric polarizability. One of the lowest coefficients of friction of any substance is found in PTFE. In the F540 version it has very low friction and good chemical resistance. Wear-, extrusion-, abrasion-, and dry running-resistance are very good. This PTFE is suitable for soft mating surface.
APPLICATION	You can apply this within heavy duty, water, oil and more.
TEMPERATURE	The temperature range is between – 200 °C and 260 °C

Maximum and minimum working temperature is depending on the specific application criteria

PHYSICAL PROPERTIES	TEST METHOD	UNIT	VALUE
Color			Beige
Specific gravity	ASTMD792 at 23 °C	g/cm3	2,06
Hardness	ASTMD2240 at 23 °C	Shore D	53
Tensile strength at break	ASTMD4894 at 23 °C	Mpa	20,4
Elongation at break	ASTMD4894 at 23°C	%	367
Service temperature range	/	°C	-200/260

The above values are typical

The information in this datasheet is based on many years of experience in the application of F540. However, unknown parameters and conditions may restrict general statements during usage. It is vital that users satisfy themselves as to the suitability of individual products through adequate testing. For this reason and due to the wide range of applications of our products, AST B.V. can accept no liability as to the suitability or correctness of our recommendations in individual cases. The application limits for pressure, temperature and velocity given in this datasheet are maximum values determined in the test laboratory. During practical applications it should be remembered that due to the interaction of the operating parameters, the maximum values must be set correspondingly lower. For exceptional operating conditions, please contact us.