

PTFE PEEK **10 % PEEK + 90 % virgin PTFE**
 Mechanical, Physical and Thermal Properties

properties	condition	standard	unit		unit	
colour					cream	cream
density/specific gravity	23 °C	DIN 53479	kg/m ³		2050	g/cm ³ 2,05
hardness	23 °C	ISO 868	Shore D		60 ±3	Shore D 60 ±3
ball indentation hardness	23 °C	DIN 53456 H 135/30	MPa			psi
tensile strength	23 °C	ASTM D 4745-79	MPa		≥ 21	psi ≥ 3045
elongation at break	23 °C	ASTM D 4745-79	%		≥ 220	% ≥ 220
compressive strength	23 °C	DIN 53455	MPa			psi
thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$			$\frac{J * 10^3}{m * h * K}$
coefficient of thermal expansion	25 °C - 200 °C		K ⁻¹ * 10 ⁻⁵			K ⁻¹ * 10 ⁻⁵
coefficient of friction *	23 °C		μ			μ
minimum service temperature			°C		-200	°F -328
maximum service temperature			°C		260	°F 500
young's modulus	23 °C	DIN 53457	MPa			psi

* coefficient of friction dry dynamic Steel 16MnCr5 v=0,6m/s; p=0,05 MPa; t=5h

Chemical Properties

Filled PTFE

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF₃, molten alkali metals

Foodstuff applications FDA