

PTFE PEEK

Mechanical, Physical and Thermal Properties

properties	condition	standard	unit	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 H135/30	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

Detailed information concerning chemical resistance see Chemical Resistance Guide

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