

PTFE D05 pigment 57 Shore D turquoise

Polytetrafluorethylene

PTFE turquoise has very good sliding properties, has best chemical resistance and is non-flammable. Due to its low elasticity it is not suitable for high mechanical loads. Note that due to the pigments it has higher strength than PTFE virgin.

Mechanical, physical and thermal properties

Material code: 0802H

Properties	Condition	Standard	Unit	Unit		
Color				turquoise		
Hardness	23°C	ISO 868/3 sec. ISO 863/15 sec.	Shore D	57 ± 3 54 ± 3		
Density	23°C	DIN 53 479	g/cm ³	2,21	kg/m ³	2210
Ball indentation hardness	23°C	DIN 53 456 H 135/30	MPa	28 ± 5	psi	4060 ± 725
Tensile strength	23°C	ASTM D 4745-79	MPa	≥31	psi	≥4495
Elongation at break	23°C	ASTM D 4745-79	%	≥270		
Compression strength	23°C	DIN 53 455	MPa	≥4	Psi	≥580
Thermal conductivity	23°C	DIN 52 612	$\frac{J \times 10^3}{M \times h \times K}$	0,8		
Coefficient of therm. Expansion	23°C-200°C		K ⁻¹ x 10 ⁻⁵	≥19		
Coefficient of friction*	23°C		μ	≥0,08		
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500
Young's modulus	23°C	DIN 53 457	MPa	≥540	Psi	≥78500
FDA CRF 21-177.1550 compliant	yes					
Council Directive 10/2011 EC	yes					
USP Class IV	no					
*dynamic coefficient of friction, dry, steel, 16MnCr5: v= 0,6 m/s; p=0,05 MPa; t=5h						

Resistant to: almost all chemicals

No resistant to: molten alkali metals, halogenides, elemental fluorine, CF3

FDA compliant