

PTFE D05 pigment 57 Shore D FDA turquoise

Filled Polytetrafluorethylene (1 % pigments and 99 % virgin PTFE)

Mechanical, physical and thermal properties

Material code: 0802H

Properties	Condition	Standard	Unit	Unit	Unit	
Color					turquoise	
Hardness	23°C/3sec.	ISO 868	Shore D	57 ± 3	Shore D	57 ± 3
	23°C/15sec.			54 ± 3		54 ± 3
Tensile strength	23°C	ASTM D 4745-11a	MPa	≥ 31	psi	≥ 4495
Elongation at break	23°C	ASTM D 4745-11a	%	≥ 270	%	≥ 270
Compressive strength	23°C	DIN 53455	MPa	≥ 4	psi	≥ 580
Density/specific gravity	23°C	DIN 53479	kg/m ³	2170	g/cm ³	2,17
Ball indentation hardness	23°C	DIN 53456 H 135/30	MPa	28 ±5	psi	4060 ±725
Thermal conductivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	≥ 0,8	$\frac{J * 10^3}{m * h * K}$	≥ 0,8
Coefficient of thermal expansion	25°C-200°C		K ⁻¹ * 10 ⁻⁵	≥ 19	K ⁻¹ * 10 ⁻⁵	≥ 19
Coefficient of friction *	23°C		μ	≥ 0,08	μ	≥ 0,08
Young's modulus	23°C	DIN 53457	MPa	≥ 540	psi	≥ 78500
Minimum service temperature			°C	-200	°F	-328
Maximum service temperature			°C	260	°F	500

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

Resistant to: almost all chemicals

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

Foodstuff approval:

FDA compliant