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PTFE D05 pigment 57 Shore D FDA 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	
colour						**turquoise**
foodstuff approval						**FDA**
density/specific gravity	**23 °C**	DIN 53479	kg/m^3	2170	g/cm^3	**2,17**
hardness	**23 °C/3 sek.**	ISO 868	Shore D	57 ± 3	Shore D	**57 ± 3**
hardness	**23°C/15 sek.**	ISO 868	Shore D	54 ± 3	Shore D	**54 ± 3**
ball indentation hardness	**23 °C**	DIN 53456 H 135/30	MPa	28 ± 5	psi	**4060 ±725**
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**
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**
minimum service temperature			°C	-200	°F	**-328**
maximum service temperature			°C	260	°F	**500**
young's modulus	**23 °C**	DIN 53457	MPa	≥ 540	psi	**≥ 78500**

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

1 % pigments + 99 % virgin PTFE

Errors and changes reserved – 2023-02