THE Seal Specialists

AbbeySeals International Ltd

MADE IN IRELAND

PTFE II 40% bronze + 60% virgin PTFE

Mechanical, Physical and Thermal Properties

Properties	Condition	Standard	Unit		Unit	
Colour				**brown**		**brown**
Density/Specific gravity	**23°C**	DIN53479	kg/m^3	**3110**	Shore A	**3,11**
Hardness	**23°C**	ISO 868	Shore D	**60 ± 3**	Shore D	**60 ± 3**
Ball Indentation Hardness	**23°C**	DIN 53456/ H135/30	MPa	**33 ± 5**	psi	**4790 ± 725**
Tensile Strength	**23°C**	ASTM D 4745-79	MPa	**≥22**	psi	**≥3190**
Elongation at Break	**23°C**	ASTM D 4745-79	%	**≥200**	%	**≥200**
Compressive Strength	**23°C**	DIN 53455	MPa	**≥10**	psi	**≥1450**
Thermal Conduvtivity		DIN 52612	$\frac{J * 10^3}{m * h * K}$	**≥4,0**	$\frac{J * 10^3}{m * h * K}$	**≥4,0**
Coefficient of Thermal Expansion	**25°C - 200°C**		$K^{-1} * 10^{-5}$	**≥8**	$K^{-1} * 10^{-5}$	**≥8**
Coefficient of Friction*	**23°C**		µ	**≥0,13**	µ	**≥0,13**
Minimum Service Temperature			°C	**-200**	°F	**-328**
Maximum Service Temperature			°C	**260**	°F	**500**
Young's Modulus	**23°C**	DIN 53457	MPa	**≥1375**	psi	**≥199500**

*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

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