THE Seal Specialists

AbbeySeals International Ltd

MADE IN IRELAND

PTFE virgin

Mechanical, Physical and Thermal Properties

Properties	Condition	Standard	Unit		Unit	
Colour				**white**		**white**
Density/Specific gravity	**23°C**	DIN 53479	kg/m^3	**2150**	g/cm^3	**2,15**
Hardness	**23°C**	ISO 868	Shore D	**55 ± 3**	Shore D	**55 ± 3**
Ball Indentation Hardness	**23°C**	DIN 53456/ H135/30	MPa	**23 ± 5**	psi	**3335 ±725**
Tensile Strength	**23°C**	ASTM D 4745-79	MPa	**≥27**	psi	**≥3916**
Elongation at Break	**23°C**	ASTM D 4745-79	%	**≥250**	%	**≥250**
Compressive Strength	**23°C**	DIN 53455	MPa	**≥4**	psi	**≥580**
Thermal Conduvtivity		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

Chemical Properties

Filled PTFE

Resistant to almost all chemicals

Not resistant to halogenides, elemental fluorine, CF3, Molten alkali metals

Foodstuff applications FDA Approval

Abbey Seals International Ltd
Dublin: 01 4277 900
Cork: 021 500 3555
sales@abbeyseals.ie

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