

## PTFE - White (PTV)

Swan Seals PTFE is a white virgin PTFE (Polytetrafluorethylene) commonly referred to as Teflon. The Material has outstanding chemical properties and the lowest co-efficient of friction of any solid material. The wide range of temperature (-200°C to +260°C) and the mechanical properties make Swan Seals PTV a universal useable material for many applications. PTV should not be used for dynamic applications (especially in water).

### PHYSICAL PROPERTIES

Specific gravity	DIN 53479	g/cm <sup>3</sup>	2,14 - 2,18
Hardness	ASTM D2240	Shore D	51 - 60
Tensile strength	DIN 53455	N/mm <sup>2</sup>	26,5 - 30
Elongation at break	DIN 53455	%	300 - 400
Ball Hardness (H132/60)	DIN 53456	N/mm <sup>2</sup>	22 - 32
Coefficient of sliding		μ	0.06
Min. Service temperature		°C	-200
Max. Service temperature		°C	260

### MAIN APPLICATION

Back up rings
Rotary seals
Special seals and O-Rings
High and low temperature applications
Chemical resistance applications
Low friction applications

### CHEMICAL RESISTANCE

Water up to 70°	R
Water up to 90°	R
HFA	R
HFB	R
HFC	R
HFD	R
Mineral Oils	R
Vegetable Oils	R
Fuels	R
Ozone	R
Air up to 100°	R
Air up to 150°	R
Air up to 200°	R

### KEY TO CHEMICAL RESISTANCE

R = resistance
S = suitable
U = unsuitable

### ANALYSIS AND EVALUATION

The properties relate to fundamental values of PTV. Product values mentioned above are corresponding to ASTM or DIN norm and have been tested on standardized plates in the laboratory.