

GENERAL

Permachem is a propriatry engineeringplastic which is produced by a special resin processing method This impart the unique properties which allow this material to be used over a wide temperature range yet have a low coiefficient of thermal expansion, extremely high extrusion resistance, and low coefficient of Friction It is used for spring-energized seals, V-packings, O-rings, back-up rings, valve seats & seals and machined components used in the chemical industry for processing equipment, for high temperature and for low friction sealing applications.

Particulare care should be taken to avoid nicking or scratching the sealing surface, as imperfections will cause leakage.

PHYSICAL PROPERTIES

Properties:	Test methode	Unit	Value
Hardness	ASTM D2240	Shore D	68
Specific gravity	ASTM D792	g/cc	2,32
Tensile strength	ASTM D638	PSI	2450
Tensile Elongation	ASTMD 638	%	40
Compressive Strength @10%	ASTM D695	PSI	3,400
Compressive Modulus	ASTM D695	PSI	350,000
Flexural Strength	ASTM D790	PSI	2900
Flexural Modulus	ASTM D790	PSI	390,000
Notched Izod Impact	ASTM D256	ft.lbs/in.	-
Melting point	ASTM D789	deg.F	
Coef.of Linear Therm.Exp.	B831 (TMA)	in./in./deg F	13 x 10-6
Continuous Service Temp.	-	deg F	675
Coefficient of Friction	PTM55007		0.18-0.20
Water Absorbtion 24 Hours	ASTM 570	%	0.1

This information is presented as a guide for material comparison only, and as such design criteria should be verified through testing.

The mentioned data are only valid for test pieces of corresponding ISO,DIN and ASTM standards and cannot be directly related to finished products.