



ENGINEERED  
SHAFT SEALS

An Employee Owned Company

## A REVOLUTIONARY PTFE-COMPOSITE MATERIAL FOR EXTREME APPLICATIONS

MECO 3000 has proven tough and durable in demanding service as a wear material in MECO mechanical seals. MECO 3000 has been Approved by the FDA for use as a food contact material.

### TYPICAL PHYSICAL PROPERTIES

PROPERTY	UNITS	ASTM METHOD	VALUE
Specific Gravity		D-792-66	1.82
Tensile Strength	PSI	D-1708-79	1,600
Elongation	%	D-1708-79	175
Deformation			
(a) 78°F, 2000 psi, 24 hours	%	D-621-64	
Total Deformation			8.25
Permanent Deformation			5.10
(b) 500°F, 600 psi, 24 hours	%	D-621-64	
Total Deformation			23.7
Permanent Deformation			12.1
Flexural Strength	PSI	D-790-80	
(a) 1% strain			1,300
(b) 3% strain			2,175
Flexural Modulus	PSI x 10 <sup>5</sup>	D-790-80	1.31
Compressive Strength	PSI	D-695-80	
(a) 0.2% offset			1,250
(b) 5% strain			1,100
Compressive Modulus	PSI x 10 <sup>4</sup>	D-695-80	9.8
Hardness	Shore D		57
Coefficient of Thermal Expansion	in/in/ °F x 10 <sup>-5</sup>	D-696-79	
(a) 78°F to 200°F			5.40
(b) 78°F to 300°F			5.90
(c) 78°F to 400°F			6.40
(d) 78°F to 500°F			7.20
Limiting PV			
(a) 10 fpm			12,000
(b) 100 fpm			13,000
(c) 1000 fpm			13,000
Wear Factor	K x 10 <sup>-10</sup>		2
Coefficient of Friction			
(a) Static @ 33.33 psi			0.08
(b) Dynamic @ 33.33 psi, 150 fpm			0.103

## MECO ENGINEERED SHAFT SEALS



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