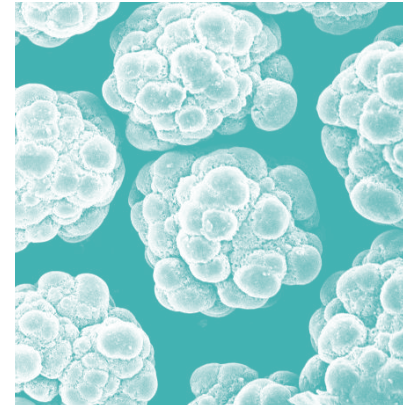


Ekonol® Case Study #5:



Wear Rate for 25% Ekonol®/PTFE and Polyimide-Filled PTFE

The table below shows the wear rate for 25% Ekonol® in PTFE compared to the wear rate for polyimide-filled PTFE. Duration of the test was two hours at 110 psi (0.76 MPa), 90 fpm (0.46 m/s). This table

shows the superior wear resistance of the Ekonol®/PTFE composition at all temperatures, but especially at 500° F (260° C) and above.

COMPARISON OF WEAR RATE FOR 25% EKONOL®/PTFE AND POLYIMIDE-FILLED PTFE

	25% Ekonol® in PTFE	Polyimide-Filled PTFE
Wear** at R.T	0.0007" (0.018 mm)	0.0015" (0.038 mm)
300° F (149° C)	0.0013" (0.033 mm)	0.0026" (0.066 mm)
400° F (204° C)		0.0036" (0.091 mm)
450° F (232° C)		0.0053" (0.1346 mm)
500° F (260° C)	0.0023" (0.058 mm)	0.0053" (0.1346 mm)
550° F (288° C)	0.0019" (0.048 mm)	0.0063" (0.16 mm)
600° F (316° C)	0.0017" (0.043 mm)	0.0085" (0.2159 mm)

** Changes in thickness after 2 hrs. at 110 psi (0.76 MPa), 90 fpm (0.46 m/s) on an LFW-1