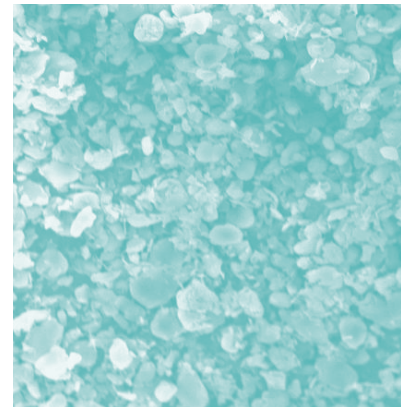


# Ekonol<sup>®</sup> M-102A Polyester Resins



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### INTRODUCTION

Ekonol<sup>®</sup> Polyesters are thermally stable, wholly aromatic polymers. When combined with PTFE, they produce composite materials that have excellent temperature and wear resistance. These compounds operate exceptionally well against soft mating surfaces such as 316 stainless steel, aluminum, mild steel, brass and other plastics.

### APPLICATIONS

The applications for Ekonol<sup>®</sup> Polyester/PTFE blends are varied and include packing sets, compressor ring sets, “O” ring seals, spring-loaded seals, continuous rings, lip seals, piston rings, self-lubricating bearings and seals, and rotors and vanes for process pumps. Ekonol<sup>®</sup> Polyester/PTFE blends are commonly used in tough environmental conditions where wear resistance, dimensional stability, and corrosion resistance are critical.

### TYPICAL PROPERTIES

Physical Properties		Thermal Properties	
Appearance	Tan - White Powder	Thermal Stability from RT to 750° F (399°C) in air with a 1 hour hold at 750° F (399°C).	Weight Loss per Hour 3.5% maximum
Form	Highly Crystalline		
Particle Size	Screen Analysis:		
	+400 2% max		
	-400 98-100%		
Average Particle Size	7 to 15 microns (0.007-0.015mm)	Decomposition Temperature	Above 800° F (426.7°C)
Apparent Density	11.415 lb/ft <sup>3</sup> 0.183 g/cm <sup>3</sup>	Maximum Recommended	Intermittent 600 - 700° F (316-371°C)
		Service Temperature	Continuous 500 - 600° F (260-316°C)