Engineering Plastics for Wind Turbines



Yaw and Rotor Bearing Components

INDUSTRY TRENDS

Reduce overall production and maintenance costs More output with larger sized turbines, creating higher loads and wear on components Reduce friction to increase efficiency

QUADRANT ANSWERS

Self lubricating light weight plastics for bearing applications High wear resistance under heavy loading

CUSTOMER BENEFITS

Reduced maintenance time and costs Minimized downtime for replacement Improved efficiency Less breakage

Quadrant provides high performance plastic as rod, plate or tube for machining or as finished parts. Over 60 years of expertise provides the platform for bringing your concept to the production line.

Let us help you build the optimum machine to increase your output, up-time and efficiency.



COMPARISON OF WEAR RESISTANCE



ERTALYTE TX

Thrust washer ring segments in yaw bearing

Challenges:

High load resistance up to 115 tons Excellent wear resistance against stainless steel Low friction



Solution:

Sliding ring bearing segments made of Ertalyte TX replace ball bearings.

Benefits:

The higher wear resistance of Ertalyte TX provides longer operating life of the bearing parts. Its self lubricating composition eliminates extra greasing and helps reduce maintenance downtime and costs. Ertalyte TX is available in large dimensions up to 2000 mm.

Please consult us also for solutions in off-shore wind turbines.

Learn more online at www.quadrantplastics.com

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