

# QUADRANT EPP PRODUCT DATA SHEET

## ERTALYTE® TX

June 2001

*Bearing Grade PET-P (PET-P + Lubricant)*

The specific formulation of ERTALYTE® TX gives a premium, internally lubricated bearing grade material, that has excellent wear resistance, as well as high pressure-velocity capabilities.

- Good resistance against acids (down to pH 1)
- Very good creep resistance
- Physiologically inert
- Good UV-resistance
- Continuous temperature 100°C (max. 160°C)
- Low dynamic coefficient of friction
- Very good dimensional stability
- Excellent wear resistance

Common applications: Bearings; Thrust washers; Slideways; Gears; Rollers; Pump components.

### Delivery Programme

Rod 1m long			
Diameter (mm):	10 (Min)	200 (Max)	
Rod 3m long			
Diameter (mm):	10 (Min)	100 (Max)	
Tube 1m & 3m long			
O.D. (mm):	20 (Min)	200 (Max)	
I.D. (mm):	12 (Min)	160 (Max)	
Plate 610mm wide			
Length (mm):	1m & 3m		
Thickness (mm):	8 (Min)	100 (Max)	

### Distributor

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### Technical Specification

Property	ISO Methods	Units	ERTALYTE® TX
Colour	-	-	Light Grey
Density	1183	g/cm <sup>3</sup>	1.44
Water absorption			
Saturation in air (23°C / 50% RH)	-	%	0.23
Saturation in water (23°C)	-	%	0.47
Tensile strength* <sup>1</sup>	527	N/mm <sup>2</sup>	76
Tensile modulus of elasticity* <sup>1</sup>	527	N/mm <sup>2</sup>	3450
Elongation at break* <sup>1</sup>	527	%	7
Impact - Charpy* <sup>1</sup>	179/1eU	kJ/m <sup>2</sup>	>30
Impact - Izod notched* <sup>1</sup>	180/2A	kJ/m <sup>2</sup>	2.5
Hardness	Rockwell	-	M94
	Shore D	-	-
Melt point	-	°C	255
Max allowable service temp in air			
for short periods	-	°C	160
continuously for 20,000hrs	-	°C	100
Linear thermal expansion coefficient	-	K <sup>-1</sup> x 10 <sup>-5</sup>	6.5
Thermal conductivity	-	W/(K.m)	0.29
Flammability* <sup>2</sup> (6mm thickness)	-	-	HB
Volume resistivity* <sup>1</sup>	IEC93	Ohm.cm	>10 <sup>15</sup>
Dielectric strength* <sup>1</sup>	IEC243	kV/mm	21
Outside applications - UV resistance	-	-	A
Acids - strong (pH < 3)	-	-	B
Alkalis - strong (pH > 11)	-	-	C
Chlorinated hydrocarbons	-	-	A/B
Hot water	-	-	B

'A' - Acceptable service; 'B' - Limited service; 'C' - Unacceptable.

\*<sup>1</sup> Measured on dry test specimens (where applicable)

\*<sup>2</sup> Tests completed by Quadrant EPP, using UL test methods

Not all material sizes shown within the delivery programme section of this data sheet are available as standard. Please contact Quadrant EPP UK Ltd for further details.

The data shown are typical values and are not intended to represent specifications. Their aim is to guide the user toward a material choice.