

QUADRANT EPP PRODUCT DATA SHEET

ERTALON® 66GF30

June 2001

Nylon 66 30% Glass Filled (PA66 + 30% Glass)

Compared to unreinforced nylon 66, this 30% glass fibre filled grade offers increased strength and stiffness, with much better creep resistance and dimensional stability. It also offers a higher continuous service temperature. The overall combination of properties makes it ideal for static, structural applications.

- Very high strength / stiffness
- Good dimensional stability
- Good alkaline resistance (up to pH 11)
- Continuous temperature 110°C (max. 240°C)
- Excellent creep resistance
- Excellent wear resistance
- Excellent electrical insulator

Common applications: Gears; Bearings; Rollers; Wheels; Cams; Nuts; Valve seats; Pulleys; Gaskets; Electrical insulators.

Delivery Programme

Rod 1m & 3m long			
Diameter (mm):	8 (Min)	200 (Max)	
Plate 625mm wide			
Thickness (mm):	10 (Min)	100 (Max)	
Length:	1m & 3m		

Technical Specification

Property	ISO Methods	Units	ERTALON® 66GF30
Colour	-	-	Black
Density	1183	g/cm ³	1.29
Water absorption			
Saturation in air (23°C / 50% RH)	-	%	5.50
Saturation in water (23°C)	-	%	1.70
Tensile strength* ¹	527	N/mm ²	100
Tensile modulus of elasticity* ¹	527	N/mm ²	5900
Elongation at break* ¹	527	%	5
Impact - Charpy* ¹	179/1eU	kJ/m ²	>50
Impact - Izod notched* ¹	180/2A	kJ/m ²	6
Hardness	Rockwell	-	M76
	Shore D	-	-
Melt point	-	°C	255
Max allowable service temp in air			
for short periods	-	°C	240
continuously for 20,000hrs	-	°C	110
Linear thermal expansion coefficient	-	K ⁻¹ x 10 ⁻⁵	5.0
Thermal conductivity	-	W/(K.m)	0.30
Flammability* ² (6mm thickness)	-	-	HB
Volume resistivity* ¹	IEC93	Ohm.cm	>10 ¹⁴
Dielectric strength* ¹	IEC243	kV/mm	30
Outside applications - UV resistance	-	-	A
Acids - strong (pH < 3)	-	-	C
Alkalis - strong (pH > 11)	-	-	B/C
Chlorinated hydrocarbons	-	-	A/B
Hot water	-	-	B

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

*¹ Measured on dry test specimens (where applicable)

*² Tests completed by Quadrant EPP, using UL test methods

Distributor

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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.