



Material: PET-P + Solid Lubricant

PET compound incorporating a uniformly dispersed solid lubricant. Its specific formulation yields a premium internally lubricated bearing grade. Outstanding wear resistance with lower co-efficient of friction than PET-P as well as higher pressure-velocity capabilities. Physiologically inert.

Technical Specification

Property	Test Method	Units	Value
Colour	-	-	Pale Grey
Density	ISO 1183	g/cm ³	1.44
Water Absorption - saturation in air (23°C/50%RH)	-	%	0.23
Water Absorption - saturation in water (23°C)	-	%	0.47
Tensile strength* ¹	ISO 527	N/mm ²	76
Tensile modulus of elasticity* ¹	ISO 527	N/mm ²	3450
Elongation at break* ¹	ISO 527	%	7
Impact - Charpy* ¹	179/1eU	kJ/m ²	>30
Impact – Izod notched	180/2A	kJ/m ²	2.5
Hardness	Rockwell Shore D	-	M94
Melt point	-	°C	255
Max service temp in air short periods	-	°C	160
Max service temp continuously for 20000hrs	-	°C	100
Linear thermal expansion coefficient	-	K ⁻¹ x10 ⁻⁵	6.5
Thermal Conductivity	-	W/(K.m)	0.29
Flammability (6mm thickness)	-	-	HB
Volume resistivity* ¹	IEC93	Ohm.cm	>10 ¹⁵
Dielectric strength* ¹	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, 'C' – Unacceptable			
* ¹ Measured on dry test specimens (where applicable)			

Availability:

Rod: 1m long – 10-200mm diameter

Rod: 3m long – 10-100mm diameter

Plate: 1m & 3m long x 610mm - 8-100mm thickness

Tube: 1m & 3m long - 20-200mm od x 12-160mm id

Applications:

Slideways, Thrust washers, Bushings, Heavily loaded bearings and rollers, Pump components

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

Not all material sizes shown within the availability programme of this data sheet are available as standard.

Please contact ABG Rubber and Plastics Ltd for further details.