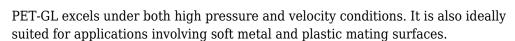
PET-GL - polyethylene terephthalate internally lubricated

Other material names PET-GL: Ertalyte TX, PET-SP, PET+solid lubricant **Material group:** PET

PET-GL is an internally lubricated thermoplastic polyester providing enhanced wear and inertness over general purpose nylon (PA) and acetal (POM) products. Containing uniformly dispersed solid lubricant, PET-GL provides a lower wear rate and coefficient of friction than unmodified polyesters like PET or PBT and even internally lubricated materials like Delrin® AF blend.





Color of material:



Typical applications:

- Manifolds machined
- Food manufacturing and processing equipment
- Carousel
- Filter Track
- · Locating Disk
- Rings









The material is used in:

Beverage industry
Food industry
Automobile industry
Packaging industry
Dairy industry
Canning industry
Meat processing industry
Engineering industry
Paper industry
Waste Management
Construction machines
Production of single-purpose machines

Features:

- Good for both wet and dry environments
- High strength and rigidity -- ideal for close tolerance parts
- Excellent stain resistance
- Good wear resistance and excellent dimensional stability

• Better resistance to acids than nylon or acetal

Material availability: Some sizes are in stock

Material properties table

Material properties table	
Specific weight	1.43 g/cm ³
Yield strength	75 N/mm ²
Allowable mean pressure deformation 1%	24.00 N/mm ²
Allowable mean pressure deformation 2%	47.00 N/mm ²
Allowable mean pressure deformation 5%	95.00 N/mm ²
p.v dry limit	0.25 MPa.m/s
Flexural strength	115 N/mm ²
Tensibility	5 %
Tensile modulus	2 600 N/mm ²
Impact toughness	30
Notched toughness	>2 kJ/m ²
Ball hardness	160 N/mm ²
Friction coefficient	0.16
Sliding wear	0.10 um/km
Antistatic material	No
Permittivity	3.40
Specific internal resistance	10^(15) Ω
Specific surface resistance	10^(14) Ω.cm
Melting point	255 °C
Thermal expansion	8 10^(-5)/K
Thermal conductivity	0.23 W/(K.m)
Permanent use temperature	-20 ; 110 °C
Transient temperature of use	-20 ; 160 °C
Absorbability	0,2 %
Water absorption	0,4 %
Resistance - oils	resistant
Acid resistance	conditionally resistant
Durability - alcali	conditionally resistant
Food contact	No
Special features	 Self-lubricating

Engineering plastics are supplied in the form of bars, plates, strips, tubes and sheets. From the semi-finished products the company TechPlasty has regularly in stock, we also supply blanks.

All standard and special materials are designed to meet your specific requirements. Their mechanical, thermal, and electrical properties and chemical resistance satisfy the most demanding requirements and this allows them to work even in the most difficult conditions. If you need advice when choosing the appropriate material for your application, please contact us. We'll gladly advise you. You can utilize the long-term experience of our technical advisors free-of- charge, who can visit you right in your operation and solve your requirements for engineering plastics directly at the site of their usage.

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