

Plaslube® TPU T/AL27

Techmer Polymer Modifiers - *Thermoplastic Polyurethane Elastomer (Polyester)*

General

Material Status	• Commercial: Active
Availability	• North America
Filler / Reinforcement	• Aramid Fiber
Additive	• PTFE Lubricant
Features	• Lubricated • Wear Resistant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.34		ASTM D792
Molding Shrinkage - Flow (0.125 in)	6.0E-3	in/in	ASTM D955
Water Absorption (24 hr)	0.10	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	7000	psi	ASTM D638
Tensile Elongation (Yield)	100	%	ASTM D638
Flexural Modulus	40000	psi	ASTM D790
Flexural Strength	9100	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.30		
Wear Factor	20	10 ⁻⁴ -10 in ³ ·min/ft·lb·hr	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	4.1	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Melting Temperature	429	°F	

