

Plaslube® TPU 40D GL10

Thermoplastic Polyurethane Elastomer

Techmer Engineered Solutions

Message:

Plaslube® TPU 40D GL10 is a Thermoplastic Polyurethane Elastomer product. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Additive	Graphite Powder Lubricant (10%)		
Features	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.18	g/cm³	ASTM D792
Water Absorption (24 hr)	0.20	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	40		ASTM D2240
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	40.0	MPa	ASTM D638
Tensile Elongation (Break)	580	%	ASTM D638
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.26		
vs. Steel - Static	0.30		
Wear Factor	81	10 ⁻⁸ mm³/N·m	ASTM D3702
Elastomers	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	5.52	MPa	ASTM D412
Tear Strength	105	kN/m	ASTM D624
Thermal	Nominal Value	Unit	Test Method
Vicat Softening Temperature	85.0	°C	ASTM D1525
CLTE - Flow	1.6E-3	cm/cm/°C	ASTM D696

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