

Plaslube® HIPS TL10 BK

High Impact Polystyrene
Techmer Engineered Solutions

Message:

Plaslube® HIPS TL10 BK is a High Impact Polystyrene product. It can be processed by injection molding and is available in North America. Characteristics include:
Flame Rated
Lubricated
Wear Resistant

General Information			
Additive	PTFE Lubricant (10%)		
Features	Good Wear Resistance		
	Low Friction		
	Lubricated		
Appearance	Black		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.11	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (230°C/3.8 kg)	8.0	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	21.4	MPa	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	1590	MPa	ASTM D790
Flexural Strength	35.9	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.10		
vs. Steel - Static	0.12		
Wear Factor	220	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	100	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	80.0	°C	ASTM D648
CLTE - Flow	7.2E-6	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms · cm	ASTM D257
Dielectric Strength ¹	18	kV/mm	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94

NOTE

1. Method A (Short-Time)

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