

Plaslube® HIPS TL10 BK

Techmer Polymer Modifiers - *High Impact Polystyrene*

General Information

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Material Status	• Commercial: Active
Availability	• North America
Additive	• PTFE Lubricant: 10%
Features	• Low Friction • Lubricated • Wear Resistant
Appearance	• Black
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.11		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)	3100	psi	ASTM D638
Tensile Elongation (Break)	30	%	ASTM D638
Flexural Modulus	230000	psi	ASTM D790
Flexural Strength	5200	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.10		
vs. Steel - Static	0.12		
Wear Factor	110	10 ⁻⁴ in ³ ·min/ft·lb·hr	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.9	ft·lb/in	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (264 psi, Unannealed)	176	°F	ASTM D648
CLTE - Flow	4.0E-6	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+13	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	460	V/mil	ASTM D149
Flammability	Nominal Value	Unit	Test Method
Flame Rating (0.06 in)	HB		UL 94

Notes

¹ Typical properties: these are not to be construed as specifications.

