

Plaslube® HDPE TL10

Techmer Polymer Modifiers - *High Density Polyethylene*

General Information

General

Material Status	• Commercial: Active
Availability	• North America
Additive	• PTFE Lubricant
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties ¹

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.01		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.015	in/in	ASTM D955
Water Absorption (24 hr)	0.30	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	5000	psi	ASTM D638
Tensile Elongation (Break)	9.0	%	ASTM D638
Flexural Modulus	160000	psi	ASTM D790
Flexural Strength	7000	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.10		
vs. Steel - Static	0.11		
Wear Factor	60	10 ⁻¹⁰ in ³ ·min/ft·lb·hr	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (73°F, 0.125 in)	1.5	ft·lb/in	ASTM D256
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	80		ASTM D785
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	265	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	250	°F	ASTM D648
CLTE - Flow	4.0E-5	in/in/°F	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength (Method A (Short-Time))	300	V/mil	ASTM D149

Notes

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

