Plaslube® PA6 GL10

Techmer Polymer Modifiers - *Polyamide 6*

General Information

General	
Material Status	• Commercial: Active
Availability	• North America
Additive	• Graphite Powder Lubricant: 10%
Features	• Lubricated
Appearance	• Colors Available
Forms	• Pellets
Processing Method	• Injection Molding

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density / Specific Gravity	1.19		ASTM D792
Molding Shrinkage - Flow (0.125 in)	0.010	in/in	ASTM D955
Water Absorption (24 hr)	1.0	%	ASTM D570
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength (Break)	10500	psi	ASTM D638
Tensile Elongation (Break)	8.0	%	ASTM D638
Flexural Modulus	500000	psi	ASTM D790
Flexural Strength	14500	psi	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.35		
vs. Steel - Static	0.30		
Wear Factor	90	10^-10 in³·min/ft·lb·hr	ASTM D3702
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (73°F, 0.125 in)	0.70	ft·lb/in	ASTM D256
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (R-Scale)	118		ASTM D785
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	370	°F	ASTM D648
Deflection Temperature Under Load (264 psi, Unannealed)	180	°F	ASTM D648
Melting Temperature	428	°F	
CLTE - Flow	3.3E-5	in/in/°F	ASTM D696
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94

Processing Information

Injection	Nominal Value	Unit
Drying Temperature	180	°F
Drying Time	4.0	hr
Rear Temperature	500 to 580	°F
Middle Temperature	500 to 580	°F
Front Temperature	500 to 580	°F
Processing (Melt) Temp	470 to 520	°F
Mold Temperature	150 to 200	°F
Back Pressure	0.00 to 50.0	psi
Screw Speed	30 to 60	rpm