

Plaslube® HDPE GL5

High Density Polyethylene
Techmer Engineered Solutions

Message:

Plaslube® HDPE GL5 is a High Density Polyethylene product. It can be processed by injection molding and is available in North America. Primary characteristic: lubricated.

General Information			
Additive	Graphite Powder Lubricant		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	0.958	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	3.0	%	ASTM D955
Water Absorption (24 hr)	0.010	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	45		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	31.0	MPa	ASTM D638
Tensile Elongation (Break)	60	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength	41.4	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.15		
vs. Steel - Static	0.19		
Wear Factor	200	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.0	°C	ASTM D648
CLTE - Flow	1.4E-4	cm/cm/°C	ASTM D696

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