

Plaslube® PA4/6 TL15 HS

Polyamide 46
Techmer Engineered Solutions

Message:

Plaslube® PA4/6 TL15 HS is a Polyamide 46 (Nylon 46) product. It can be processed by injection molding and is available in North America. Characteristics include:
Heat Stabilizer
Lubricated
Wear Resistant

General Information			
Additive	Heat Stabilizer		
	PTFE Lubricant (15%)		
Features	Good Wear Resistance		
	Heat Stabilized		
	Low Friction		
	Lubricated		
Appearance	Colors Available		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.27	g/cm ³	ASTM D792
Molding Shrinkage - Flow (3.18 mm)	3.2	%	ASTM D955
Water Absorption (24 hr)	1.2	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	100		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Break)	58.6	MPa	ASTM D638
Tensile Elongation (Break)	300	%	ASTM D638
Flexural Modulus	1210	MPa	ASTM D790
Flexural Strength	62.1	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.080		
vs. Steel - Static	0.060		
Wear Factor	30	10 ⁻⁸ mm ³ /N · m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	53	J/m	
23°C, 3.18 mm	290	J/m	

Unnotched Izod Impact (3.18 mm)	No Break		ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	221	°C	
1.8 MPa, Unannealed	160	°C	
CLTE - Flow	7.9E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+14	ohms·cm	ASTM D257
Dielectric Strength ¹	22	kV/mm	ASTM D149
NOTE			
1.	Method A (Short-Time)		

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