

Plaslube® HIPS E SL5

High Impact Polystyrene
Techmer Engineered Solutions

Message:

Plaslube® HIPS E SL5 is a High Impact Polystyrene product. It can be processed by extrusion and is available in North America.
Characteristics include:
Flame Rated
Lubricated

General Information			
Additive	Silicone Lubricant (5%)		
Appearance	Colors Available		
	Natural Color		
Forms	Pellets		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.05	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR)			ASTM D1238
230°C/1.2 kg	2.0	g/10 min	
230°C/3.8 kg	33	g/10 min	
Molding Shrinkage - Flow (3.18 mm)	0.40	%	ASTM D955
Water Absorption (24 hr)	0.60	%	ASTM D570
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	60		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield)	26.2	MPa	ASTM D638
Tensile Elongation (Yield)	44	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	34.5	MPa	ASTM D790
Coefficient of Friction			ASTM D1894
vs. Steel - Dynamic	0.060		
vs. Steel - Static	0.080		
Wear Factor	60	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			ASTM D648
0.45 MPa, Unannealed	96.1	°C	
1.8 MPa, Unannealed	85.0	°C	
CLTE - Flow	6.3E-5	cm/cm/°C	ASTM D696

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	ASTM D257
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94

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