LATILUB 75/4-20T

LATI INDUSTRIA TERMOPLASTICI SPA - *Polybutylene Terephthalate*

General Information

Product Description			
Self-lubricating product based on Polybutylene Terephthalate (PBT). PTFE.			
General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Additive	• PTFE Lubricant		
Features	• Lubricated	• Self Lubricating	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.42	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	2.2 to 2.4	%	
Flow : 0.0787 in	2.2 to 2.4	%	
Water Absorption [3] (Saturation, 73°F)	0.22	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	334000	psi	
140°F	247000	psi	
194°F	102000	psi	
248°F	58000	psi	
302°F	29000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	2900	psi	
Yield, 140°F	2900	psi	
Yield, 194°F	2180	psi	
Yield, 248°F	1450	psi	
Yield, 302°F	1310	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	3630	psi	
Break, 140°F	3630	psi	
Break, 194°F	No Break		
Break, 248°F	No Break		
Break, 302°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	4.0	%	
Yield, 140°F	4.0	%	
Yield, 194°F	4.0	%	
Yield, 248°F	4.5	%	
Yield, 302°F	6.0	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	40	%	
Break, 140°F	40	%	
Break, 194°F	> 50	%	
Break, 248°F	> 50	%	
Break, 302°F	> 50	%	

Coefficient of Friction [4]			Internal Method
Dynamic	0.21		
Static	0.17		
Wear Factor [5]	450	10^-10 in³·min/ft·lb·hr	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.8	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	24	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	338	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	131	°F	ISO 75-2/A
Vicat Softening Temperature	347	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	6.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	6.7E-5	in/in/°F	ISO 11359-2
Electrical	**Nominal Value**	**Unit**	**Test Method**
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	480	V/mil	ASTM D149
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	HB		
0.06 in	HB		
0.12 in	HB		

Notes

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

[2] 60 MPa

[3] in air

[4] ISO 7148-2 (speed 0.126 m/s, load 10N)

[5] ISO 7148-2 (speed 0.126 m/s, load 10N, path length 13.6km)