LATILUB 66 Y/20

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 66*

General Information

Product Description

Self-lubricating product based on Polyamide 66 (PA 66). Aramid fibres. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Aramid Fiber		
Features	• PFAS Free	• Self Lubricating	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.18	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	1.7 to 2.0	%	
Flow : 0.0787 in	1.1 to 1.4	%	
Water Absorption [3] (Saturation, 73°F)	2.2	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus (73°F)	551000	psi	ISO 527-1/1
Tensile Stress (Yield, 73°F)	10900	psi	ISO 527-2/5
Tensile Stress			ISO 527-2/5
Break, 73°F	10900	psi	
Break, 140°F	9430	psi	
Break, 194°F	7250	psi	
Break, 248°F	5800	psi	
Tensile Strain (Yield, 73°F)	2.5	%	ISO 527-2/5
Tensile Strain			ISO 527-2/5
Break, 73°F	6.0	%	
Break, 140°F	8.0	%	
Break, 194°F	10	%	
Break, 248°F	12	%	
Coefficient of Friction [4]			Internal Method
Dynamic	0.29		
Static	0.25		
Wear Factor [5]	300	10^-10 in³·min/ft·lb·hr	Internal Method
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.4	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	12	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	473	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	230	°F	ISO 75-2/A
Vicat Softening Temperature	464	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	4.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	5.6E-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))	460	V/mil	ASTM D149

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)