LATAMID 66 H2 G/25-V0KB1

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 66*

General Information

Product Description

Compound based on Polyamide 66 (PA 66). Improved thermal stabilisation. Glass fibres. Flame retardant, UL94 V-0 class, with red phosphorous. PFAS-free product.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Glass Fiber		
Additive	• Flame Retardant		
Features	• Flame Retardant	• Good Thermal Stability	• PFAS Free

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.32	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.70 to 1.1	%	
Flow : 0.0787 in	0.30 to 0.55	%	
Water Absorption [3] (Saturation, 73°F)	1.9	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	1.02E+6	psi	
140°F	667000	psi	
194°F	508000	psi	
248°F	392000	psi	
302°F	290000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	10900	psi	
Yield, 140°F	10200	psi	
Yield, 194°F	7250	psi	
Yield, 248°F	5800	psi	
Yield, 302°F	5080	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	18100	psi	
Break, 140°F	10200	psi	
Break, 194°F	7250	psi	
Break, 248°F	5800	psi	
Break, 302°F	5080	psi	
Tensile Strain			ISO 527-2/5
Yield, 73°F	2.9	%	
Yield, 140°F	3.5	%	
Yield, 194°F	4.5	%	
Yield, 248°F	4.8	%	
Yield, 302°F	5.2	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	3.1	%	
Break, 140°F	4.4	%	
Break, 194°F	5.0	%	

Break, 248°F	5.5	%	
Break, 302°F	6.0	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	1.9	ft·lb/in²	
73°F	3.8	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	19	ft·lb/in²	
73°F	24	ft·lb/in²	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	491	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	446	°F	ISO 75-2/A
Vicat Softening Temperature	464	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	1.7E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.3E-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))	510	V/mil	ASTM D149
Comparative Tracking Index [4] (Solution A)	400	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	HB		
0.06 in	V-0		
0.12 in	V-0		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°F	
Glow Wire Ignition Temperature			IEC 60695-2-13
0.04 in	1380	°F	
0.08 in	1380	°F	
Oxygen Index	27	%	ASTM D2863

Notes

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

[2] 60 MPa

[3] in air

[4] Without surfactant