LATAMID 66 H2 G/25-V0HF1

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, free of halogens-based flame retardants and red phosphorous. Very good mechanical properties. Very good electrical properties. 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	• Halogen Free • Low (to None) Phosphorus Content	• PFAS Free

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.40	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.90 to 1.2	%	
Flow : 0.0787 in	0.40 to 0.65	%	
Water Absorption [3] (Saturation, 73°F)	1.6	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	1.23E+6	psi	
140°F	870000	psi	
194°F	580000	psi	
248°F	508000	psi	
302°F	392000	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	18900	psi	
Break, 140°F	14500	psi	
Break, 194°F	11600	psi	
Break, 248°F	10200	psi	
Break, 302°F	8700	psi	
Tensile Strain			ISO 527-2/5
Break, 73°F	3.0	%	
Break, 140°F	4.3	%	
Break, 194°F	6.2	%	
Break, 248°F	7.8	%	
Break, 302°F	9.0	%	

Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	4.3	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	31	ft·lb/in²	ISO 179/1eU

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)	464	°F	ISO 75-2/A
Vicat Softening Temperature	473	°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			ASTM D149
73°F, 0.0787 in, Method A (Short-Time) [4]	230	V/mil	
73°F, 0.0787 in, Method A (Short-Time)	530	V/mil	
Comparative Tracking Index [5] (Solution A)	600	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	V-0		
0.06 in	• V-0 • 5VA		
0.12 in	• V-0 • 5VA		
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	1430	°F	
0.08 in	1430	°F	
Oxygen Index	34	%	ASTM D2863

Notes

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

[2] 60 MPa

[3] in air

[4] conditioned

[5] Without surfactant