LATAMID 6 H2 G/25-V2HF

LATI INDUSTRIA TERMOPLASTICI SPA - *Polyamide 6*

General Information

Product Description

Compound based on Polyamide 6 (PA 6). Improved thermal stabilisation. Glass fibres. Flame retardant, UL94 V-2 class, free of halogens-based flame retardants and red phosphorous. Low smoke density and low toxicity index. 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)	1.37	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.65 to 1.0	%	
Flow : 0.0787 in	0.65 to 0.95	%	
Water Absorption [3] (Saturation, 73°F)	2.1	%	ISO 62

Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	696000	psi	
140°F	406000	psi	
194°F	232000	psi	
248°F	160000	psi	
302°F	123000	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	10900	psi	
Yield, 140°F	6530	psi	
Yield, 194°F	4350	psi	
Yield, 248°F	3630	psi	
Yield, 302°F	2900	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	10900	psi	
Break, 140°F	6530	psi	
Break, 194°F	4350	psi	
Break, 248°F	3630	psi	
Break, 302°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	2.8	%	
Yield, 140°F	8.0	%	
Yield, 194°F	> 10	%	
Yield, 248°F	> 10	%	
Yield, 302°F	> 10	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	3.6	%	

Break, 140°F	12	%	
Break, 194°F	28	%	
Break, 248°F	45	%	
Break, 302°F	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.7	ft·lb/in²	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	17	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	392	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	329	°F	ISO 75-2/A
Vicat Softening Temperature	401	°F	ISO 306/B120
CLTE - Flow (86 to 212°F)	3.1E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	3.6E-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))	530	V/mil	ASTM D149
Comparative Tracking Index [4] (Solution A)	450	V	IEC 60112
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
0.030 in	V-2		
0.06 in	V-2		
0.12 in	V-2		
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	1340	°F	
0.08 in	1340	°F	
Oxygen Index	28	%	ASTM D2863

Notes

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

[2] 60 MPa

[3] in air

[4] without surfactant