

## LATENE 7H2W-V0

LATI INDUSTRIA TERMOPLASTICI SPA - *Polypropylene Homopolymer*

### General Information

#### Product Description

Compound based on Polypropylene homopolymer (PPh). Improved thermal stabilisation. Metal stabilised. Flame retardant, UL94 V-0 class, free of halogens-based flame retardants and red phosphorous. The product mentioned herein must not be used to produce parts operating in hot (>70°C), very humid environments, or in contact with hot water, or in contact with overheated steam. 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
Additive	• Flame Retardant • Metal Stabilizer		
Features	• Chemical Resistant • Flame Retardant • Good Thermal Stability	• Halogen Free • Homopolymer • Low (to None) Phosphorus Content	• PFAS Free

### Properties <sup>1</sup>

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.04	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	1.2 to 1.7	%	
Flow : 0.0787 in	1.2 to 1.7	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.070	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	261000	psi	
140°F	138000	psi	
194°F	65300	psi	
248°F	34800	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	2900	psi	
Yield, 140°F	1740	psi	
Yield, 194°F	1160	psi	
Yield, 248°F	725	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	2180	psi	
Break, 140°F	1450	psi	
Break, 194°F	No Break		
Break, 248°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	5.0	%	
Yield, 140°F	5.0	%	
Yield, 194°F	6.5	%	
Yield, 248°F	7.5	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	25	%	
Break, 140°F	50	%	
Break, 194°F	> 50	%	
Break, 248°F	> 50	%	



<b>Impact</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	0.38	ft·lb/in <sup>2</sup>	
73°F	0.86	ft·lb/in <sup>2</sup>	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	4.8	ft·lb/in <sup>2</sup>	
73°F	9.5	ft·lb/in <sup>2</sup>	
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load (66 psi, Unannealed)	221	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	140	°F	ISO 75-2/A
Vicat Softening Temperature	203	°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
Thermal Conductivity			ASTM E1461
-- <sup>4</sup>	1.4	Btu·in/hr/ft <sup>2</sup> /°F	
-- <sup>5</sup>	1.4	Btu·in/hr/ft <sup>2</sup> /°F	
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Surface Resistivity	1.0E+12	ohms	ASTM D257
Dielectric Strength (73°F, 0.0787 in, Method A (Short-Time))	690	V/mil	ASTM D149
Comparative Tracking Index <sup>6</sup> (Solution A)	600	V	IEC 60112
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
0.030 in	V-2		
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	1520	°F	
0.08 in	1520	°F	
Oxygen Index	33	%	ASTM D2863

#### Notes

<sup>1</sup> Typical properties: these are not to be construed as specifications.

<sup>2</sup> 60 MPa

<sup>3</sup> in air

<sup>4</sup> through plane

<sup>5</sup> in plane

<sup>6</sup> without surfactant

