LATENE 7H2W T-V0E

LATI INDUSTRIA TERMOPLASTICI SPA - *Polypropylene Homopolymer*

General Information

Product Description

Compound based on Polypropylene homopolymer (PPh). Improved thermal stabilisation. Metal stabilised. Mineral filler. Flame retardant, UL94 V-0 class, with brominated flame retardants, free of PBB/PBDE. PFAS-free product.

General			
Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Mineral		
Additive	• Flame Retardant	• Metal Stabilizer	
Features	• Brominated • Chemical Resistant	• Flame Retardant • Good Thermal Stability	• Homopolymer • PFAS Free

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.35	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	0.70 to 0.90	%	
Flow : 0.0787 in	0.75 to 0.95	%	
Water Absorption [3] (Saturation, 73°F)	0.070	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	464000	psi	
140°F	203000	psi	
194°F	131000	psi	
248°F	43500	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	3630	psi	
Yield, 140°F	2180	psi	
Yield, 194°F	1450	psi	
Yield, 248°F	725	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	3630	psi	
Break, 140°F	1450	psi	
Break, 194°F	1450	psi	
Break, 248°F	435	psi	
Tensile Strain			ISO 527-2/5
Yield, 73°F	2.5	%	
Yield, 140°F	4.0	%	
Yield, 194°F	5.0	%	
Yield, 248°F	7.5	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	4.0	%	
Break, 140°F	7.5	%	
Break, 194°F	15	%	
Break, 248°F	30	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (73°F)	1.0	ft·lb/in²	ISO 179/1eA

Charpy Unnotched Impact Strength (73°F)	9.5	ft·lb/in²	ISO 179/1eU
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (66 psi, Unannealed)	212	°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)	5.0E-5	in/in/°F	ISO 11359-2
CLTE - Transverse (86 to 212°F)	6.1E-5	in/in/°F	ISO 11359-2
Thermal Conductivity			ASTM E1461
-- [4]	1.4	Btu·in/hr/ft²/°F	
-- [5]	1.4	Btu·in/hr/ft²/°F	
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))	1100	V/mil	ASTM D149
Comparative Tracking Index [6] (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		
0.12 in	• V-0 • 5VB		
Glow Wire Flammability Index			IEC 60695-2-12
0.04 in	1760	°F	
0.08 in	1760	°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] through plane

[5] in plane

[6] without surfactant