LATENE EP 7 TES/30

LATI INDUSTRIA TERMOPLASTICI SPA - *Polypropylene Copolymer*

General Information

Product Description

Compound based on Polypropylene copolymer (PPc). Aesthetic talc. Very good surface appearance. Good elongation. PFAS-free product.

General

Material Status	• Commercial: Active		
Availability	• Africa & Middle East • Asia Pacific	• Europe • Latin America	• North America
Filler / Reinforcement	• Talc		
Features	• Copolymer	• PFAS Free	

Properties [1]

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.14	g/cm³	ISO 1183
Molding Shrinkage [2]			ISO 294-4
Across Flow : 0.0787 in	1.0 to 1.3	%	
Flow : 0.0787 in	0.95 to 1.3	%	
Water Absorption [3] (Saturation, 73°F)	0.050	%	ISO 62
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus			ISO 527-1/1
73°F	377000	psi	
140°F	160000	psi	
194°F	72500	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	3630	psi	
Yield, 140°F	2180	psi	
Yield, 194°F	1450	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	2180	psi	
Break, 140°F	No Break		
Break, 194°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	4.0	%	
Yield, 140°F	5.0	%	
Yield, 194°F	6.0	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	35	%	
Break, 140°F	> 50	%	
Break, 194°F	> 50	%	
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength			ISO 179/1eA
-4°F	0.14	ft·lb/in²	
73°F	1.4	ft·lb/in²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-4°F	7.1	ft·lb/in²	
73°F	17	ft·lb/in²	
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)	149	°F	ISO 75-2/A
Vicat Softening Temperature	185	°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)	5.3E-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))	970	V/mil	ASTM D149

Notes

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

[2] 60 MPa

[3] in air

[4] through plane

[5] in plane