

**LATAN 3E71**

 LATI INDUSTRIA TERMOPLASTICI SPA - *Acetal (POM) Copolymer*
**General Information**
**Product Description**

Compound based on Polyoximethylene (POM). Toughened. Good elongation and impact resistance. PFAS-free product.

**General**

Material Status	• Commercial: Active		
Availability	• Africa & Middle East	• Europe	• North America
	• Asia Pacific	• Latin America	
Additive	• Impact Modifier		
Features	• Good Toughness	• Impact Modified	• PFAS Free

**Properties <sup>1</sup>**

Physical	Nominal Value	Unit	Test Method
Density (73°F)	1.36	g/cm <sup>3</sup>	ISO 1183
Molding Shrinkage <sup>2</sup>			ISO 294-4
Across Flow : 0.0787 in	2.4 to 2.8	%	
Flow : 0.0787 in	2.3 to 2.7	%	
Water Absorption <sup>3</sup> (Saturation, 73°F)	0.18	%	ISO 62
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-1/1
73°F	276000	psi	
140°F	160000	psi	
194°F	94300	psi	
Tensile Stress			ISO 527-2/5
Yield, 73°F	5800	psi	
Yield, 140°F	3630	psi	
Yield, 194°F	2180	psi	
Tensile Stress			ISO 527-2/5
Break, 73°F	5080	psi	
Break, 140°F	No Break		
Break, 194°F	No Break		
Tensile Strain			ISO 527-2/5
Yield, 73°F	> 10	%	
Yield, 140°F	> 10	%	
Yield, 194°F	> 10	%	
Tensile Strain			ISO 527-2/5
Break, 73°F	> 50	%	
Break, 140°F	> 50	%	
Break, 194°F	> 50	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (73°F)	7.1	ft-lb/in <sup>2</sup>	ISO 179/1eA
Charpy Unnotched Impact Strength (73°F)	No Break		ISO 179/1eU
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (66 psi, Unannealed)	248	°F	ISO 75-2/B
Deflection Temperature Under Load (264 psi, Unannealed)	149	°F	ISO 75-2/A
Vicat Softening Temperature	248	°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



-- 4		1.4 Btu·in/hr/ft <sup>2</sup> /°F	
-- 5		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))	460	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
0.06 in		HB	
0.12 in		HB	

#### 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

