

Latan 3 E71

Acetal (POM) Copolymer

LATI S.p.A.

Message:

Compound based on Polyoximethylene (POM).

Toughened.

High viscosity. Very high toughness properties and impact resistance.

General Information			
Additive	Impact Modifier		
Features	High Viscosity		
	Impact Modified		
	Ultra High Impact Resistance		
	Ultra High Toughness		
Physical	Nominal Value	Unit	Test Method
Density	1.36	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	2.4 to 2.8	%	
Flow : 2.00 mm	2.3 to 2.7	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	1900	MPa	
60°C	1100	MPa	
90°C	650	MPa	
Tensile Stress			ISO 527-2/5
Yield, 23°C	35.0	MPa	
Yield, 60°C	25.0	MPa	
Yield, 90°C	15.0	MPa	
Break, 23°C	35.0	MPa	
Tensile Strain (Break, 23°C)	120	%	ISO 527-2/5
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	12	kJ/m ²	ISO 179/1eA
Charpy Unnotched Impact Strength (23°C)	No Break		ISO 179/1eU
Notched Izod Impact (23°C, 3.20 mm)	190	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	105	°C	ISO 75-2/B
1.8 MPa, Unannealed	65.0	°C	ISO 75-2/A
Continuous Use Temperature ²	70.0	°C	
Vicat Softening Temperature	120	°C	ISO 306/B50

CLTE - Flow (30 to 100°C)	1.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Comparative Tracking Index ³ (Solution A)	600	V	IEC 60112
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	175 to 200	°C	
Mold Temperature	60.0 to 90.0	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		
3.	Without Surfactant		

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