

Latan 13 K/30

Acetal (POM) Copolymer

LATI S.p.A.

Message:

Compound based on Polyoximethylene (POM).

Carbon fibre.

Medium viscosity. Good tribological properties.

General Information			
Filler / Reinforcement	Carbon Fiber,30% Filler by Weight		
Features	Medium Viscosity		
Physical	Nominal Value	Unit	Test Method
Density	1.50	g/cm ³	ISO 1183
Molding Shrinkage ¹			ISO 294-4
Across Flow : 2.00 mm	1.0 to 1.3	%	
Flow : 2.00 mm	0.30 to 0.55	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus			ISO 527-2/1
23°C	18500	MPa	
60°C	14500	MPa	
90°C	10000	MPa	
Tensile Stress			ISO 527-2/5
Break, 23°C	120	MPa	
Break, 60°C	100	MPa	
Break, 90°C	65.0	MPa	
Tensile Strain			ISO 527-2/5
Break, 23°C	0.90	%	
Break, 60°C	1.1	%	
Break, 90°C	1.2	%	
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength			ISO 179/1eA
-20°C	2.0	kJ/m ²	
23°C	2.5	kJ/m ²	
Charpy Unnotched Impact Strength			ISO 179/1eU
-20°C	15	kJ/m ²	
23°C	15	kJ/m ²	
Notched Izod Impact (23°C, 3.20 mm)	35	J/m	ASTM D256A
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature			
0.45 MPa, Unannealed	170	°C	ISO 75-2/B
1.8 MPa, Unannealed	160	°C	ISO 75-2/A

Continuous Use Temperature ²	85.0	°C	
Vicat Softening Temperature	165	°C	ISO 306/B50
CLTE - Flow (30 to 100°C)	1.0E-5	cm/cm/°C	ASTM D696
Injection	Nominal Value	Unit	
Drying Temperature	80.0 to 90.0	°C	
Drying Time	3.0	hr	
Processing (Melt) Temp	180 to 210	°C	
Mold Temperature	80.0 to 100	°C	
Injection Rate	Moderate		
NOTE			
1.	at 60 Mpa of cavity pressure		
2.	20,000 hr		

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