

Niform 90

Acetal (POM) Copolymer

Soredi S.p.a.

Message:

Acetalic copolymer of medium-high molecular weight, good impact resistance, for injection moulding and extrusion.

General Information			
Features	High molecular weight		
	Copolymer		
	Impact resistance, good		
Forms	Particle		
Processing Method	Extrusion		
	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.41	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (190°C/2.16 kg)	9.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow	2.4 - 2.9	%	ASTM D955
Water Absorption (Equilibrium, 23°C, 50% RH)	0.40	%	ISO 62
Hardness	Nominal Value	Unit	Test Method
	80		
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength ¹ (Yield)	62.0	MPa	ASTM D638
Tensile Elongation ² (Break)	50	%	ASTM D638
Flexural Modulus ³	2500	MPa	ASTM D790
Flexural Strength ⁴ (Break)	90.0	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-20°C, 3.20 mm	60	J/m	ASTM D256
23°C, 3.20 mm	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	115	°C	ASTM D648
Vicat Softening Temperature	150	°C	ASTM D1525 ⁵
CLTE - Flow (23 to 55°C)	1.1E-4	cm/cm/°C	ISO 11359-2

Electrical	Nominal Value	Unit	Test Method
Surface Resistivity	1.0E+15	ohms	IEC 60093
Volume Resistivity	1.0E+14	ohms·cm	IEC 60093
Dielectric Strength (1.00 mm)	19	kV/mm	IEC 60243-1
Relative Permittivity (1 MHz)	3.70		IEC 60250
Dissipation Factor (1 MHz)	0.020		IEC 60250
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
1.60 mm	HB		UL 94
3.20 mm	HB		UL 94
Additional Information			
Volume Resistivity, IEC 60093: > 1E14			
NOTE			
1.	5.0 mm/min		
2.	5.0 mm/min		
3.	1.3 mm/min		
4.	1.3 mm/min		
5.	标准 B (120°C/h), 载荷2 (50N)		

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