

Technical Datasheet POM 501S NC010

1) Product Description:

POM 501S is a medium viscosity acetal homopolymer featuring excellent mechanical properties such as toughness and strength.

2) Applications:

Injection molding of industrial parts, automotive applications.

3) Typical data:

PROPERTY	TEST METHOD	UNIT	TYPICAL VALUE*
Resin Identification	ISO 1043		POM
Part Marking Code	ISO 11469		>POM<
Yield Stress	ISO 527	MPa	69
Yield Strain	ISO 527	%	10
Strain at Break	ISO 527	%	38
Nominal Strain at Break	ISO 527	%	25
Tensile Modulus	ISO 527	MPa	3100
Flexural Modulus	ISO 178	MPa	2900
Notched Charpy Impact Strength	ISO 179/1eA	kJ/m ²	7
Deflection Temperature 1.80MPa	ISO 75-1/-2	°C	95
Melting Temperature 10°C/min	ISO 11357-1/-3	°C	178
Melt Mass-Flow Rate 190°C, 2.16kg	ISO 1133	g/10 min	15
Density	ISO 1183	kg/m ³	1420
Melt Temperature Range		°C	210-220
Melt Temperature Optimum		°C	215
Mold Temperature Range		°C	80-100
Mold Temperature Optimum		°C	90
Drying Time, Dehumidified Dryer		h	2-4
Drying Temperature		°C	80
Processing Moisture Content		%	<0.2
Hold Pressure Range		MPa	80-100

* Typical values not to be construed as specifications.