

Technical Datasheet POM 100P

1) Product Description:

Delrin® 100P is a high viscosity acetal homopolymer for use in easy to fill molds. Delrin® 100P provides maximum toughness in the product line without modification. Delrin® 100P has improved processing thermal stability.

2) Applications:

Injection molding of industrial parts.

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	70
Yield Strain	ISO 527	%	25
Strain at Break 50mm/min	ISO 527	%	65
Nominal Strain at Break	ISO 527	%	45
Tensile Modulus	ISO 527	MPa	2900
Tensile Creep Modulus 1h 1000h	ISO 899	MPa	2700 1500
Flexural Modulus	ISO 178	MPa	2600
Flexural Stress @ 3.5% Strain	ISO 178	MPa	74
Notched Charpy Impact Strength -30°C 23°C	ISO 179/1eA	kJ/m ²	11 14
Unnotched Charpy Impact Strength -30°C 23°C	ISO 179/1eU		350 NB
Deflection Temperature 0.45MPa 1.80MPa	ISO 75-1/-2	°C	160 93
Melting Temperature 10°C/min	ISO 11357-1/-3	°C	178
CLTE, Parallel -40 - 23°C 23 - 55°C 55 - 100°C	ISO 11359-1/-2	E-4/C	1.0 1.1 1.5
CLTE, Normal -40 - 23°C 23 - 55°C 55 - 100°C	ISO 11359-1/-2		1.0 1.1 1.5
Vicat Softening Temperature 50N	ISO 306		°C
Melt Mass-Flow Rate 190°C, 2.16kg	ISO 1133	g/10 min	2.5
Density	ISO 1183	kg/m ³	1420
Hardness, Rockwell Scale M	ISO 2039/2		92

Scale R			120
Water Absorption Equilibrium 50%RH Saturation, immersed	ISO 62, Similar to	%	0.3 1.4
Molding Shrinkage Normal, 2.0mm Parallel, 2.0mm	ISO 294-4	%	2.0 2.2

* Typical values not to be construed as specifications.

