

DATASHEET

**Product:**

Description: POM HOMOPOLYMER

(FORMATAL POM HOMOPOLYMER NATURALE is a general purpose medium viscosity acetal homopolymer for injection molding).

<b>Properties</b>			
Density	g/cm <sup>3</sup>	ISO 1183	1,42
Water absorption at 23°C 50% r.U	%	ISO 62	0,4
Melt volume-flow rate (190°C 2,16 kg)	°C	ISO 1133	9
Molding shrinkage (parallel)	%	ISO 294-4	2,0
Molding shrinkage (normal)	%	ISO 294-4	1,9
<b>Physical properties</b>			
Melting point, DSC	°C	ISO 3146	178
<b>Mechanical properties</b>			
Tensile modulus	MPa	ISO 527 - 2	3100
Tensile stress, yield	MPa	ISO 527 - 2	71
Stress at break	MPa	ISO 527 - 2	-
Yield strain	%	ISO 527 - 2	17
Strain at break	%	ISO 527 - 2	30
Flexural modulus	MPa	ISO 178	2800
Maximum Flexural stress	MPa	ISO 178	95
IZOD notched impact strength +23°C	KJ/m <sup>2</sup>	ISO 180/1eA	9
IZOD notched impact strength -30°C	KJ/m <sup>2</sup>	ISO 180/1eA	7,5
<b>Thermal properties</b>			
Heat distortion temperature under 1,8 Mpa load (HDT A)	°C	ISO 75 - 2	95
Heat distortion temperature under 0,45 MPa load (HDT B)	°C	ISO 75 - 2	160
Vicat softening point under 9,8 N load (Vicat A)	°C	ISO 306	-
Vicat softening point under 0,49 N load (Vicat B)	°C	ISO 306	155
<b>Electrical properties</b>			
Volume resistivity	Ω*cm	IEC 60093	1E+013
Surface resistivity	Ω	IEC 60093	1E+014
Comparative Tracking Index CTI	V	IEC 60112	600
Electric Strength	kV/mm	IEC 60243-1	44
<b>Flammability</b>			
Flammability rate at 0,8 mm thickness		UL94	HB
Flammability rate at 1,6 mm thickness		UL94	HB
Flammability rate at 3,2 mm thickness		UL94	HB
Oxygen Index	%	ISO 4589-1/-2	22
<b>Processing Parameters</b>			
Melt temperature	°C	CYLINDER	180 - 205
Melt Mold	°C	MOLD	75 -100
Drying Temperature	°C		80
Dry Time	h		3

\*Processing conditions listed are for typical start-up conditions for comparison purposes. Most applications are part dependent and will require process adjustment after start-up.