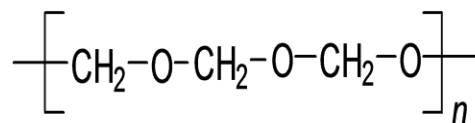


Polyoxymethylene (POM)



SPECIFICATIONS

Property	Spec	Value
Hardness	DIN 53505	85D
Density	DIN 53479	1.41 g/cm ³
Tensile Strength	DIN 53504	70 N/mm ²
Ultimate Elongation	DIN 53504	40%
Compression Strength (10% deformation @ 73° F)	ASTM D695	16,000 PSI
Minimum Service Temp.		-45 °C
		-49 °F
Maximum Service Temp.		110 °C
		230 °F
Color		White/Black

DESCRIPTION

ML01 is a POM material with hardness 85D, specially compounded for standard grade applications. Acetal or Polyoxymethylene (POM) belongs to the polyether family which contains carbon-oxygen-carbon (-C-O-C-) ether linkages in the polymer backbone. Acetal or POM refers to the polyether with only one carbon (methylene) in between ether linkages. To improve its low thermal stability for commercial use, POM has to be chemically modified by one of two means. The first is to modify the ends of polymer chains to yield the corresponding POM homopolymer (POM-H). The second method is to add 1%-2% ethylene oxide to the polymer chain that results in POM copolymer (POM-C). POM possesses a simple regular backbone, thus it is a highly crystalline polymer. This chemical and morphological structure leads to high mechanical strength, low moisture absorption, high dimensional stability, and good chemical resistance.