Naxtry Future-Driven Manufacturing

POM-C, also known as acetal or polyoxymethylene, is a thermoplastic polymer with excellent mechanical properties. It offers high stiffness, low friction, good wear resistance, and dimensional stability. POM-C is commonly used in applications where low friction, high strength, and precise tolerances are required, such as gears, bearings, bushings, and mechanical components.

Chemical Description

Description	Value
Material Type	Semi-Crystalline Thermoplastic
Chemical Name	POM Polyoxymethylene Acetal
	Copolymer
Additives	Unfilled
Color	White
UV Resistant	No

Mechanical Properties

Property	Maximum Unless Range is Specified	
Tensile Strength,ksi	9.5	
Tensile Modulus,ksi	400	
Compressive Strength,ksi	15	
Compressive Modulus,ksi	400	
Flexural Strength,ksi	12	
Flexural Modulus,ksi	400	
Elongation at Break	30%	
Hardness Rockwell	M88/R120	
Notched Izod Impact	1	
Strength,ft-lb/in	-	

Physical Properties

Property	Maximum Unless Range is Specified
Density,lbs/in3	0.051
Water Absorption, 24 hrs, Immersion,% by wt.	0.2
Coefficient of Linear Thermal	5.4
Expansion, x10-5 in./in./°F	
Heat Deflection Temp,°F at 263psi	220
Melting Point Temp,°F	335
Max Continuous Operating	180
Temp,°F	
Minimum Operating Temp,°F	-58
Flammability Rating, UL94	НВ
Dielectric Strength,V/mil	420
Dielectric Constant at 1 MHz	3.8
Thermal	1.6
Conductivity,BTU-in/ft ² -hr-°F	

The material properties in this datasheet are provided by one of the manufacturers collaborating with Naxtry. Please note that material properties may slightly vary among different manufacturers. Naxtry can accommodate customer requests for specific materials or brands.