

# UNITAL® C

Acetal (POM) Copolymer + PE

Nytec Plastics, Ltd.

## Message:

UNITAL® Acetal (polyoxy-methylene) offers design engineers a superior blend of strength, stiffness, lubricity, and dimensional stability. These properties, along with inherent machining ease, have made UNITAL one of the most widely used engineering grade thermoplastics. To meet specific application configurations and to maximize production efficiencies, Nytec Plastics offers a broad array of UNITAL Acetal stock shapes. These materials include both homopolymer (DELTRIN®) and copolymer unfilled grades as well as PTFE-filled grades for enhanced wear resistance. Nytec also offers an electrically conductive grade of UNITAL Acetal that is used in the microelectronics industry to dissipate static electric charges.

Base resin: Acetal Copolymer (POM), Best machinability, improved chemical resistance, FDA Compliant

General Information	
Features	Copolymer
	Good Chemical Resistance
	Good Dimensional Stability
	Good Wear Resistance
	High Stiffness
	High Strength
	Low Moisture Absorption
	Lubricated
	Machinable
Uses	Automotive Applications
	Bearings
	Bushings
	Electrical Parts
	Electrical/Electronic Applications
	Fluid Handling
	Food Service Applications
	Gears
	Molds/Dies/Tools
	Pump Parts
	Valves/Valve Parts
	Wear Strip
Agency Ratings	FDA Unspecified Rating
	NSF Unspecified Rating
	USDA 3A
	USDA Unspecified Approval
Forms	Preformed Parts
	Rod

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.40	g/cm <sup>3</sup>	ASTM D792
Water Absorption			ASTM D570
24 hr	0.25	%	
Saturation	0.90	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (M-Scale)	90		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	2760	MPa	ASTM D638
Tensile Strength	62.1 to 70.3	MPa	ASTM D638
Tensile Elongation (Break)	30 to 60	%	ASTM D638
Flexural Modulus	2520	MPa	ASTM D790
Flexural Strength	82.7	MPa	ASTM D790
Compressive Strength	103	MPa	ASTM D695
Coefficient of Friction	0.21		
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	104	°C	ASTM D648
Continuous Use Temperature	85.0	°C	Internal Method
Peak Melting Temperature	168	°C	ASTM D3418
CLTE - Flow	9.7E-5	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength <sup>1</sup>	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.80		
1 MHz	3.80		
Dissipation Factor (60 Hz)	3.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94
NOTE			
1.	Method A (Short-Time)		

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