

UNITAL® esd

Acetal (POM) Homopolymer

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, Electro-Static Dissipative - IDP filler/non-carbon, 1010-1012 ohms/sq., beige color

General Information			
Features	ESD Protection		
	Good Dimensional Stability		
	Good Wear Resistance		
	High Stiffness		
	High Strength		
	Homopolymer		
	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		
Appearance	Beige		
Forms	Preformed Parts		
	Rod		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Water Absorption			ASTM D570

24 hr	0.20	%	
Saturation	2.5	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength	45.5	MPa	ASTM D638
Tensile Elongation (Break)	45	%	ASTM D638
Flexural Modulus	1450	MPa	ASTM D790
Flexural Strength	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact	110	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	60.6	°C	ASTM D648
Continuous Use Temperature	85.0	°C	Internal Method
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+9 to 1.0E+10	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating	HB		UL 94

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