UNITAL® H

Acetal (POM) Homopolymer

Nytef 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, Nytef Plastics offers a broad array of UNITAL Acetal stock shapes. These materials include both homopolymer (DELRIN®) and copolymer unfilled grades as well as PTFE-filled grades for enhanced wear resistance. Nytef also offers an electrically conductive grade of UNITAL Acetal that is used in the microelectronics industry to dissipate static electric charges.
Base resin: Delrin 150E Acetal Homopolymer (POM)--Excellent toughness, FDA Compliant

General Information	
Features	Good Dimensional Stability
	Good Toughness
	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
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	1.42	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.25	%	
Saturation	0.90	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	94		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength	66.2 to 75.8	MPa	ASTM D638
Tensile Elongation (Break)	30 to 50	%	ASTM D638
Flexural Modulus	3240	MPa	ASTM D790
Flexural Strength	98.6	MPa	ASTM D790
Compressive Strength	110	MPa	ASTM D695
Coefficient of Friction	0.20		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	64	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	125	°C	ASTM D648
Continuous Use Temperature	85.0	°C	Internal Method
Peak Melting Temperature	175	°C	ASTM D3418
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength [1]	20	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.70		
1 MHz	3.70		
Dissipation Factor (60 Hz)	5.0E-3		ASTM D150
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating	HB		UL 94
NOTE			
1.	Method A (Short-Time)		

Recommended distributors for this material

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