UNITAL® Lf13

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: Acetal Homopolymer, 13% PTFE Powder filled - Low friction, FDA Compliant, brown color

General Information	
Filler / Reinforcement	PTFE Micropowder,13% Filler by Weight
Features	Good Dimensional Stability Good Wear Resistance High Stiffness High Strength Homopolymer Low Friction 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 USDA 3A USDA Unspecified Approval
Appearance	Brown
Forms	Preformed Parts

Rod

Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.48	g/cm³	ASTM D792
Water Absorption			ASTM D570
24 hr	0.23	%	
Saturation	0.80	%	
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (M-Scale)	89		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Modulus	4140	MPa	ASTM D638
Tensile Strength	55.2 to 58.6	MPa	ASTM D638
Tensile Elongation (Break)	15 to 30	%	ASTM D638
Flexural Modulus	2830	MPa	ASTM D790
Flexural Strength	93.1	MPa	ASTM D790
Compressive Strength	107	MPa	ASTM D695
Coefficient of Friction	0.16		
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact	43	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load (1.8 MPa, Unannealed)	113	°C	ASTM D648
Continuous Use Temperature	85.0	°C	Internal Method
Peak Melting Temperature	175	°C	ASTM D3418
CLTE - Flow	9.4E-5	cm/cm/°C	ASTM D696
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength [1]	16	kV/mm	ASTM D149
Dielectric Constant			ASTM D150
60 Hz	3.10		
1 MHz	3.10		
Dissipation Factor (60 Hz)	9.0E-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

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

WECHAT