## Delrin® Stock Shapes 150

## Acetal (POM) Homopolymer

Ensinger Inc.

## Message:

DELRIN® is a crystalline plastic which offers an excellent balance of properties that bridge the gap between metals and plastics. DELRIN® possesses high tensile strength, creep resistance and toughness. It also exhibits low moisture absorption. It is chemically resistant to hydrocarbons, solvents and neutral chemicals. These properties along with its fatigue endurance make DELRIN® ideal for many industrial applications. Ensinger's Delrin® 150 stock shapes are a homopolymer acetal manufactured using DuPont Delrin 150 Resin. It is a crystalline plastic which offers an excellent balance of properties to bridge the gap between metals and plastics. It possesses high tensile and flexural properties, along with creep resistance and toughness, while exhibiting low moisture absorption, and fatigue endurance.

General Information			
Features	Crystalline		
	Fatigue Resistant		
	Fuel Resistant		
	Good Abrasion Resistance		
	Good Chemical Resistance		
	Good Creep Resistance		
	Good Dimensional Stability		
	Good Toughness		
	Good Wear Resistance		
	High Impact Resistance		
	High Stiffness		
	High Strength		
	High Tensile Strength		
	Homopolymer		
	Hydrocarbon Resistant		
	Low Moisture Absorption		
	Machinable		
	Solvent Resistant		
Uses	Industrial Applications		
Agency Ratings	FDA Unspecified Rating		
	NSF Unspecified Rating		
	USDA Unspecified Approval		
Forms	Shapes		
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			ASTM D785
M-Scale	94		
R-Scale	120		
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	3100	MPa	ASTM D638
Tensile Strength (Yield)	75.8	MPa	ASTM D638
Tensile Elongation (Break)	25	%	ASTM D638
Flexural Modulus	2900	MPa	ASTM D790
Flexural Strength	110	MPa	ASTM D790
Compressive Strength	35.9	MPa	ASTM D695
Coefficient of Friction <sup>1</sup> (vs. Itself -			
Dynamic)	0.20		
Wear Factor	110	10^-8 mm³/N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method
Unnotched Izod Impact	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed	169	°C	
1.8 MPa, Unannealed	125	°C	
Melting Temperature	175	°C	ASTM D2133
CLTE - Flow	1.2E-4	cm/cm/°C	ASTM D696
Maximum Service Temperature			
Continuous	85	°C	UL 746B
Intermittent	149	°C	
Limiting Pressure Velocity	1460	psi·fpm	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+15	ohms·cm	ASTM D257
Dielectric Strength	20	kV/mm	ASTM D149
Dielectric Constant <sup>2</sup> (60 Hz)	3.70		ASTM D150
Dissipation Factor (60 Hz)	5.0E-3		ASTM D150
Flammability	Nominal Value	Unit	Test Method
Flame Rating	НВ		UL 94
NOTE			
1.	40 psi, 50 fpm		
2.	50% BH		

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