

# Ensinger HYDLAR® Z

Polyamide 66

Ensinger Inc.

## Message:

HYDLAR™ possesses a combination of physical properties that cannot be found in any other commercially available engineered plastic. Design engineers have created a family of superior wear and abrasion resistant thermoplastics using aramid fiber reinforcement.

HYDLAR® is applicable to a wide variety of industrial applications where high strength, extreme wear resistance and low abrasiveness are required. Typical applications would be wear strips, bearings, bushings, rollers, gears and wherever wear and abrasion resistant materials are required.

General Information			
Filler / Reinforcement	Aramid fiber		
Features	Good dimensional stability		
	High strength		
	Machinable		
	Good wear resistance		
	Good wear resistance		
Uses	Bushings		
	Gear		
	Wear strip		
	Industrial application		
	Roller		
	Bearing		
Forms	Plate		
	Bar		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.16	g/cm <sup>3</sup>	ASTM D792
Water Absorption			ASTM D570
24 hr	0.80	%	ASTM D570
Saturated, 23°C	6.3	%	ASTM D570
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	8960	MPa	ASTM D638
Tensile Strength (Break)	110	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	6210	MPa	ASTM D790
Flexural Strength	159	MPa	ASTM D790
Compressive Strength	133	MPa	ASTM D695
Wear Factor <sup>1</sup> (1.7 MPa, 0.051 m/sec)	160 - 260	10 <sup>-8</sup> mm <sup>3</sup> /N·m	ASTM D3702
Impact	Nominal Value	Unit	Test Method

Notched Izod Impact	140	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load (1.8 MPa, Unannealed)	243	°C	ASTM D648
Continuous Use Temperature	149	°C	
CLTE - Flow	2.9E-5	cm/cm/°C	ASTM D696
Additional Information			
Data obtained from extruded shapes material.			
NOTE			
1.	PV=2500		

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WECHAT