

## Ensinger DELRIN® 100AF Acetal Homopolymer, 13% PTFE filled (POM)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, PTFE-Filled

### Material Notes:

Ensinger's DELRIN®100AF blend stock shapes are a 13% PTFE fiber filled homopolymer acetal. They offer an improved coefficient of friction, better lubricity, and improved wear characteristics over unfilled and PTFE powder filled acetals. This advanced acetal material uses a combination of PTFE fibers uniformly dispersed in Delrin acetal resin. The combination results in improved wear characteristics along with strength, toughness, dimensional stability and machinability. The materials exceptional wear properties and internal lubrication serves to reduce or eliminate the need for external lubricants. Ensinger can also produce a full strength 20% PTFE filled version. Excellent wear characteristics Self lubricating Low coefficient of friction Maximum unmodified toughness Superior load bearing characteristics DELRIN®100AF is often used for applications such as bearing, bushings, cams and other antifriction devices that also require extra toughness. Information provided by Ensinger

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Ensinger-DELRIN-100AF-Acetal-Homopolymer-13-PTFE-filled-POM.php](http://www.lookpolymers.com/polymer_Ensinger-DELRIN-100AF-Acetal-Homopolymer-13-PTFE-filled-POM.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.50 g/cc	1.50 g/cc	ASTM D792
Density	1.49 g/cc	0.0540 lb/in <sup>3</sup>	ASTM D792
Water Absorption	0.12 % @Time 86400 sec	0.12 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	77	77	ASTM D785
Tensile Strength, Yield	54.25 MPa	7868 psi	ASTM D638
Elongation at Yield	10.3 %	10.3 %	ASTM D638
Tensile Modulus	2.36 GPa	342 ksi	1 mm/min; ASTM D638
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	175 °C	347 °F	ASTM D3418
Maximum Service Temperature, Air	85.0 °C	185 °F	long term
	149 °C	300 °F	intermittent
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	334 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	118 °C	244 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability UL 94	UL94	UL94	

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China