

Ensinger Tecaform™ HPV 13 Acetal Homopolymer - Extruded Products (POM)

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

Material Notes:

Tecaform™ HPV 13 is a brown homopolymer acetal with an internal PTFE lubricant. Its low coefficient of friction, excellent PV values, toughness, wear resistance, and machinability make it an exceptional material for use in many industrial and military components with moving parts. Additionally, Tecaform™ HPV 13 has superior chemical resistance and flexural fatigue properties, as well as low moisture absorption associated with acetal materials. Uses: Tecaform™ HPV 13's range of exceptional properties makes it an ideal engineering plastic for use in precision instruments and measuring devices, as well as in many critical components in the automotive, aviation, military, industrial, food processing machinery, business equipment, and specialty valve areas. Information supplied by Ensinger, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-Tecaform-HPV-13-Acetal-Homopolymer-Extruded-Products-POM.php

Physical Properties	Metric	English	Comments
Density	1.54 g/cc	0.0556 lb/in ³	ASTM D792
Water Absorption	0.22 %	0.22 %	24 hrs.; ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	48.3 MPa	7010 psi	ASTM D638
Elongation at Break	17.5 %	17.5 %	ASTM D638
Modulus of Elasticity	2.34 GPa	340 ksi	ASTM D638
Flexural Yield Strength	86.2 MPa	12500 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm	1.00 ft-lb/in	ASTM D256
Coefficient of Friction, Dynamic	0.12	0.12	40 psi, 50 fpm
Coefficient of Friction, Static	0.070	0.070	40 psi, 50 fpm
K (wear) Factor	40.3 x 10 ⁻⁸ mm ³ /N-M	20.0 x 10 ⁻¹⁰ in ³ -min/ft-lb-hr	
Limiting Pressure Velocity	0.0560 MPa-m/sec	1600 psi-ft/min	100 fpm
	0.420 MPa-m/sec	12000 psi-ft/min	10 fpm

Thermal Properties	Metric	English	Comments
	91.8 µm/m-°C	51.0 µin/in-°F	

CTE linear Thermal Properties	Metric @ Temperature 29.4 - 60.0 °C	English @ Temperature 85.0 - 140 °F	ASTM D696 Comments
Melting Point	175 °C	347 °F	
Maximum Service Temperature, Air	85.0 °C	185 °F	Long Term
Deflection Temperature at 0.46 MPa (66 psi)	168 °C	334 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	102 °C	216 °F	ASTM D648
	118 °C	244 °F	ASTM D648

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