

Ensinger DELRIN® 507 Black Acetal Homopolymer (POM)

Category : Polymer , Thermoplastic , Acetal (POM) , Acetal Homopolymer, Unreinforced

Material Notes:

Delrin® 507 is a general purpose homopolymer acetal containing a UV stabilizer ideally suited for outdoor applications or those in which there is an otherwise abundant source of UV light. General higher surface hardness Easily machinable Designed for outdoor applications Delrin 507 Black is typically used for outdoor applications in such industries as electronics, communications, transportation, construction and marine. Information provided by Ensinger

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ensinger-DELRIN-507-Black-Acetal-Homopolymer-POM.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.40 g/cc	1.40 g/cc	ASTM D792
Water Absorption	0.20 % @Time 86400 sec	0.20 % @Time 24.0 hour	ASTM D570

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	70.60 MPa	10240 psi	ASTM D638
Elongation at Break	10 %	10 %	ASTM D638
Tensile Modulus	2.52 GPa	366 ksi	ASTM D638
Flexural Strength	134 MPa	19400 psi	ASTM D790
Flexural Modulus	3.32 GPa	482 ksi	ASTM D790
Izod Impact, Notched	0.683 J/cm	1.28 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Melting Point	175 °C	347 °F	ASTM D3418
Maximum Service Temperature, Air	93.3 °C	200 °F	long term; ASTM D648
Deflection Temperature at 0.46 MPa (66 psi)	169 °C	336 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	114 °C	237 °F	ASTM D648

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