

Victrex® Pipes™ PEEK polymer

Category : Polymer , Thermoplastic , Polyketone , Polyetheretherketone (PEEK) , Polyetheretherketone, PEEK, Unreinforced

Material Notes:

VICTREX Pipes™ are durable, lightweight pipe and tube extruded from VICTREX® PEEK polymer which offer high temperature performance and a unique combination of properties. An excellent alternative to metals, VICTREX Pipes provide chemical and corrosion resistance, low permeability, wear abrasion and impact resistance in a polymer-based pipe and tube. Mounting performance expectations such as reliability and durability to increase service life, lighter weight for fuel efficiency and cost reduction, the ability to satisfy more stringent environmental and safety regulations combined with exposure to increasingly harsh environments are complex challenges faced by the oil and gas, aerospace and industrial segments. Representing the latest advances in both material and manufacturing technology, VICTREX Pipes offer a solution to deliver greater long-term reliability in extreme operating conditions. Benefits: Increased reliability and durability for extended service life Weight reduction compared to metals Overall system cost reduction from lower maintenance Extended performance envelope compared to other and reduced downtime engineering thermoplastics Non-galling, low particle generation from abrasion Qualification, safety and regulatory approvals to eliminate damage to pump seals Features: Extreme temperature range Aggressive chemical and corrosion resistance Excellent wear and abrasion performance High permeation resistance Stable mechanical properties at high temperatures Lightweight combined with excellent mechanical properties Fatigue performance Low smoke and toxicity Ductile behavior Information Provided by VICTREX®

Order this product through the following link:

http://www.lookpolymers.com/polymer_Victrex-Pipes-PEEK-polymer.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.30 g/cc	1.30 g/cc	Crystalline; ISO 1183
Water Absorption	0.070 % @Time 86400 sec	0.070 % @Time 24.0 hour	ISO 62-1

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	99	99	ASTM D785
Tensile Strength, Yield	100 MPa	14500 psi	ISO 527
Elongation at Break	45 %	45 %	ISO 527
Tensile Modulus	3.50 GPa	508 ksi	ISO 527
Taber Abrasion, mg/1000 Cycles	6.0 @Load 1.00 kg	6.0 @Load 2.20 lb	CS10

Thermal Properties	Metric	English	Comments
CTE, linear	4.70 µm/m-°C @Temperature <=143 °C	2.61 µin/in-°F @Temperature <=289 °F	Below Tg; ASTM D696

Thermal Properties	Metric 10.0 mm/m-°C	English 5.0 mm/in-°F	Comments
	@Temperature >=143 °C	@Temperature >=289 °F	Above Tg; ASTM D696
Melting Point	343 °C	649 °F	ISO 11357
Maximum Service Temperature, Air	180 °C	356 °F	Mechanical with Impact
Glass Transition Temp, Tg	143 °C	289 °F	ISO 11357

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