

Westlake Plastics PEEK

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

Material Notes:

PEEK is a high performance semi-crystalline thermoplastic. PEEK characteristics include high temperature performance, excellent wear properties, superior chemical resistance and outstanding toughness and strength. Information provided by Westlake Plastics.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Westlake-Plastics-PEEK.php

Physical Properties	Metric	English	Comments
Density	1.27 g/cc	0.0459 lb/in ³	ASTM D792
Water Absorption	0.50 %	0.50 %	ASTM D570; 24 hrs.

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	97.2 MPa	14100 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Tensile Modulus	3.59 GPa	520 ksi	ASTM D638
Flexural Yield Strength	24.1 MPa	3500 psi	ASTM D790
Flexural Modulus	4.10 GPa	594 ksi	ASTM D790
Izod Impact, Notched	0.630 J/cm	1.18 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
CTE, linear	46.8 $\mu\text{m/m-}^{\circ}\text{C}$	26.0 $\mu\text{in/in-}^{\circ}\text{F}$	ASTM D696
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Melting Point	340 $^{\circ}\text{C}$	644 $^{\circ}\text{F}$	ASTM D4591
Maximum Service Temperature, Air	240 $^{\circ}\text{C}$	464 $^{\circ}\text{F}$	Continuous Use
Deflection Temperature at 1.8 MPa (264 psi)	160 $^{\circ}\text{C}$	320 $^{\circ}\text{F}$	ASTM D648
Flammability, UL94	V-0	V-0	
Oxygen Index	35 %	35 %	ASTM D2863

Electrical Properties	Metric	English	Comments
Dielectric Constant	3.2	3.2	ASTM D150
	@Frequency 1000 Hz	@Frequency 1000 Hz	

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