

Pyrotek Pinnacle Thermocouple Protection Tubes O'-Sialon (Bonded Silicon Carbide) TCPT

Category : Ceramic , Carbide

Material Notes:

The robust properties of Pinnacle Thermocouple Protection Tubes make it a superior alternative to competitive tubes in temperature measurement, maintenance and product life areas. Applications Crucible furnaces Degassing crucibles Holding furnaces Casting areas Advantages Non-wetting to aluminum and its alloys Less dross build up at metal line Superior response time Narrow temperature control band for energy conservation Excellent thermal shock resistance Longer life Information provided by Pyrotek.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pyrotek-Pinnacle-Thermocouple-Protection-Tubes-O039-Sialon-Bonded-Silicon-Carbide-TCPT.php

Physical Properties	Metric	English	Comments
Density	2.60 g/cc	0.0939 lb/in ³	
Open Porosity	18.1 %	18.1 %	

Mechanical Properties	Metric	English	Comments
Modulus of Elasticity	0.0780 GPa	11.3 ksi	
Modulus of Rupture	0.0340 GPa	4.93 ksi	

Thermal Properties	Metric	English	Comments
CTE, linear	4.40 $\mu\text{m/m-}^{\circ}\text{C}$	2.44 $\mu\text{in/in-}^{\circ}\text{F}$	
	@Temperature 20.0 $^{\circ}\text{C}$	@Temperature 68.0 $^{\circ}\text{F}$	
Thermal Conductivity	8.97 W/m-K	62.3 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 720 $^{\circ}\text{C}$	@Temperature 1330 $^{\circ}\text{F}$	
	9.05 W/m-K	62.8 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 540 $^{\circ}\text{C}$	@Temperature 1000 $^{\circ}\text{F}$	
	10.21 W/m-K	70.86 BTU-in/hr-ft ² - $^{\circ}\text{F}$	
	@Temperature 300 $^{\circ}\text{C}$	@Temperature 572 $^{\circ}\text{F}$	

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