

Solvay Specialty Polymers Galden® HT110 PFPE Heat Transfer Fluid

Category : Fluid , Polymer

Material Notes:

Galdeen® HT grades are specifically recommended for use as heat transfer fluids. Galdeen® PFPE is a line of high-performance, inert, fluorinated fluids. Various grades, with a variety of service temperature ranges, are available. Uses include heat transfer, electronic reliability testing, vapor phase soldering, solvents, and acid spill mitigation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Solvay-Specialty-Polymers-Galden-HT110-PFPE-Heat-Transfer-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.71 g/cc	0.0618 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Solubility of Water	0.0014 %	0.0014 %	
Kinematic Viscosity	0.77 cSt	0.77 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.21 cSt	1.21 cSt	
	@Temperature 0.000 °C	@Temperature 32.0 °F	
	1.94 cSt	1.94 cSt	
	@Temperature -20.0 °C	@Temperature -4.00 °F	
	3.74 cSt	3.74 cSt	
	@Temperature -40.0 °C	@Temperature -40.0 °F	
Molecular Weight	580 g/mol	580 g/mol	average
Vapor Pressure	0.0227 bar	17.0 torr	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Surface Tension	16 dynes/cm	16 dynes/cm	

Thermal Properties	Metric	English	Comments
Heat of Vaporization	66.9 J/g	28.8 BTU/lb	at boiling point
	@Temperature 110 °C	@Temperature 230 °F	
CTE, linear	367 µm/m-°C	204 µin/in-°F	converted from volumetric expansion of 0.0011 cm ³ /cm ³ -°C
Specific Heat Capacity	0.960 J/g-°C	0.229 BTU/lb-°F	
Thermal Conductivity	0.0650 W/m-K	0.451 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	Comments
Boiling Point			
Maximum Service Temperature, Air	110 °C	230 °F	as heat transfer fluid
Minimum Service Temperature, Air	-55.0 °C	-67.0 °F	as heat transfer fluid
Pour Point	<= -100 °C	<= -148 °F	

Optical Properties	Metric	English	Comments
Refractive Index	1.280	1.280	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.50e+15 ohm-cm	1.50e+15 ohm-cm	
Dielectric Constant	1.92	1.92	
	@Frequency 1000 Hz	@Frequency 1000 Hz	
Dielectric Strength	15.7 kV/mm	399 kV/in	2.54 mm gap
Dissipation Factor	0.00020	0.00020	
	@Frequency 1000 Hz	@Frequency 1000 Hz	

Descriptive Properties	Value	Comments
Solubility of Air (cm ³ gas / 100 cm ³ liquid)	26	

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China