

Solvay Specialty Polymers Galden® D03 PFPE Fluid

Category : Fluid , Polymer

Material Notes:

Galden® D grades are specifically recommended for electronic reliability testing, including thermal shock and hermetic seal testing. Galden® 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-D03-PFPE-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.58 g/cc	0.0571 lb/in ³	
	@Temperature 125 °C	@Temperature 257 °F	
	1.79 g/cc	0.0647 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.96 g/cc	0.0708 lb/in ³	
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Kinematic Viscosity	0.55 cSt	0.55 cSt	
	@Temperature 125 °C	@Temperature 257 °F	
	2.4 cSt	2.4 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	160 cSt	160 cSt	
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Molecular Weight	870 g/mol	870 g/mol	average
Surface Tension	16 dynes/cm	16 dynes/cm	

Thermal Properties	Metric	English	Comments
CTE, linear	367 Åµm/m-°C	204 Åµin/in-°F	converted from volumetric expansion of 0.0011 cm ³ /cm ³ -°C
Specific Heat Capacity	0.973 J/g-°C	0.233 BTU/lb-°F	
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	

Thermal Properties	Metric	English	Comments
Pour Point	-85.0 Â°C	-121 Â°F	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+15 ohm-cm	1.00e+15 ohm-cm	
Dielectric Constant	2.1	2.1	
Dielectric Strength	15.7 kV/mm	399 kV/in	2.54 mm gap

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