

Solvay Specialty Polymers Galden® D05 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-D05-PFPE-Fluid.php

Physical Properties	Metric	English	Comments
Density	1.82 g/cc	0.0658 lb/in ³	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
	1.98 g/cc	0.0715 lb/in ³	
	@Temperature -54.0 °C	@Temperature -65.2 °F	
Kinematic Viscosity	4.4 cSt	4.4 cSt	
	@Temperature 25.0 °C	@Temperature 77.0 °F	
Molecular Weight	1020 g/mol	1020 g/mol	average
Surface Tension	17 dynes/cm	17 dynes/cm	

Thermal Properties	Metric	English	Comments
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	0.973 J/g-°C	0.233 BTU/lb-°F	
Thermal Conductivity	0.0700 W/m-K	0.486 BTU-in/hr-ft ² -°F	
Boiling Point	230 °C	446 °F	
Pour Point	-77.0 °C	-107 °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 Electrical Properties	15.7 kV/mm Metric	399 kV/in English	2.54 mm gap Comments
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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