

## Duratherm 600 Paraffinic Heat Transfer Fluid

Category : Fluid

**Material Notes:**

Duratherm 600 - thermal fluid rated to 600°F it contains the industries most aggressive blend of additives for long, trouble free operation in a variety of applications. Specifically engineered to withstand the extreme oxidation environment in open systems such as extrusion, blow molding and electrically heated portable systems as well as many others. A proprietary dual stage anti-oxidant system, seal and gasket extender as well as numerous other additives ensures a cleaner, longer running fluid. Information provided by Duratherm.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Duratherm-600-Paraffinic-Heat-Transfer-Fluid.php](http://www.lookpolymers.com/polymer_Duratherm-600-Paraffinic-Heat-Transfer-Fluid.php)

Physical Properties	Metric	English	Comments
Specific Gravity	0.868 g/cc	0.868 g/cc	at 60°F
Density	0.662 g/cc	0.0239 lb/in <sup>3</sup>	
	@Temperature 316 °C	@Temperature 600 °F	
	0.676 g/cc	0.0244 lb/in <sup>3</sup>	
	@Temperature 288 °C	@Temperature 550 °F	
	0.702 g/cc	0.0253 lb/in <sup>3</sup>	
	@Temperature 260 °C	@Temperature 500 °F	
	0.731 g/cc	0.0264 lb/in <sup>3</sup>	
	@Temperature 204 °C	@Temperature 400 °F	
	0.851 g/cc	0.0307 lb/in <sup>3</sup>	
	@Temperature 37.8 °C	@Temperature 100 °F	
Kinematic Viscosity	0.75 cSt	0.75 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.83 cSt	0.83 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
	0.95 cSt	0.95 cSt	
	@Temperature 260 °C	@Temperature 500 °F	
Kinematic Viscosity at 40°C (104°F)	32.1 cSt	32.1 cSt	
Kinematic Viscosity at 100°C (212°F)	5.2 cSt	5.2 cSt	
Molecular Weight	372 g/mol	372 g/mol	Average
Vapor Pressure	0.0269 bar	20.1 torr	

Physical Properties	@Temperature 204 °C Metric	@Temperature 400 °F English	Comments
	0.0379 bar	28.4 torr	
	@Temperature 260 °C	@Temperature 500 °F	
	0.07860 bar	58.95 torr	
	@Temperature 288 °C	@Temperature 550 °F	
	0.1531 bar	114.8 torr	
	@Temperature 316 °C	@Temperature 600 °F	

Thermal Properties	Metric	English	Comments
Specific Heat Capacity	1.97 J/g-°C	0.470 BTU/lb-°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
	2.51 J/g-°C	0.600 BTU/lb-°F	
	@Temperature 204 °C	@Temperature 400 °F	
	2.68 J/g-°C	0.640 BTU/lb-°F	
	@Temperature 260 °C	@Temperature 500 °F	
	2.76 J/g-°C	0.660 BTU/lb-°F	
	@Temperature 288 °C	@Temperature 550 °F	
	2.89 J/g-°C	0.690 BTU/lb-°F	
	@Temperature 316 °C	@Temperature 600 °F	
Thermal Conductivity	0.126 W/m-K	0.876 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 316 °C	@Temperature 600 °F	
	0.128 W/m-K	0.888 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 288 °C	@Temperature 550 °F	
	0.130 W/m-K	0.900 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 260 °C	@Temperature 500 °F	
	0.133 W/m-K	0.924 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 204 °C	@Temperature 400 °F	
	0.140 W/m-K	0.972 BTU-in/hr-ft <sup>2</sup> -°F	
	@Temperature 37.8 °C	@Temperature 100 °F	
Pour Point	-10.0 °C	14.0 °F	
Flammability Test	464	464	Fire Point, °F

Thermal Properties	680 Metric	680 English	Autoignition Temp, °F Comments
Flash Point	224 °C	435 °F	

Descriptive Properties	Value	Comments
Distillation range at 10%	715	
Distillation Range at 90%	886	
Max Bulk Temp (°F)	600	
Max Film Temp (°F)	650	

## Contact Songhan Plastic Technology Co.,Ltd.

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