

Pearl Engineering PEPLPET FR-101-H Monofilament Resin

Category : Polymer , Thermoplastic , Polyester, TP , Polyethylene Terephthalate (PET)

Material Notes:

Used as textile grade flame retardant for furniture, car and plane upholstery.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pearl-Engineering-PEPLPET-FR-101-H-Monofilament-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.38 - 1.42 g/cc	1.38 - 1.42 g/cc	PEPL-10-W-21
Bulk Density	0.800 g/cc	0.0289 lb/in ³	PEPL-10-W-67
Bead Size	2.80 mm	0.110 in	chip size, length; PEPL-10-W-71
	3.10 mm	0.122 in	chip size, D2; PEPL-10-W-71
	3.80 mm	0.150 in	chip size, D1; PEPL-10-W-71
Viscosity Measurement	0.70 - 0.74	0.70 - 0.74	intrinsic, [dl/gm]; QCD--W1-42

Thermal Properties	Metric	English	Comments
Heat of Fusion	<= 65.0 J/g	<= 28.0 BTU/lb	
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	
	@Temperature 20.0 °C	@Temperature 68.0 °F	
	1.37 J/g-°C	0.327 BTU/lb-°F	
	@Temperature 80.0 °C	@Temperature 176 °F	
	1.44 J/g-°C	0.344 BTU/lb-°F	
	@Temperature 100 °C	@Temperature 212 °F	
	1.82 J/g-°C	0.435 BTU/lb-°F	
	@Temperature 200 °C	@Temperature 392 °F	
	2.05 J/g-°C	0.490 BTU/lb-°F	
	@Temperature 280 °C	@Temperature 536 °F	
Thermal Conductivity	0.213 W/m-K	1.48 BTU-in/hr-ft ² -°F	liquid
	@Temperature 280 °C	@Temperature 536 °F	
	0.242 W/m-K	1.68 BTU-in/hr-ft ² -°F	solid
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	250 - 256 °C	482 - 493 °F	QCD--W1-49

Thermal Properties	Metric	English	Comments
Glass Transition Temp, Tg	177.0 - 81.0 °C	177.0 - 178 °F	QCD--W1-21
Flash Point	480 °C	896 °F	
Oxygen Index	>= 30 %	>= 30 %	ASTM D 2863

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	when packed; QCD--W1-54

Descriptive Properties	Value	Comments
Acetaldehydes (ppm)	<1	QCD--W1-53
Chips per Gram	30-36	QCD--W1-47
COOH end groups (mval/kg)	<25	QCD--W1-43
Fines (ppm)	<100	QCD--W156

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