

Pearl Engineering PEPLPET F096HA Film Grade Resin

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

Material Notes:

Used mainly as PET films/ sheets, known as bright with anti-blocking agent.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pearl-Engineering-PEPLPET-F096HA-Film-Grade-Resin.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.33 - 1.35 g/cc	1.33 - 1.35 g/cc	PEPL-10-W-21
Bulk Density	0.700 - 0.800 g/cc	0.0253 - 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	0.60 - 0.64	0.60 - 0.64	intrinsic, [dl/gm]; PEPL-10-W-15
Molecular Weight	17500 g/mol	17500 g/mol	Number average M
	35000 g/mol	35000 g/mol	Weight average M
Ash	0.025 %	0.025 %	PEPL-10-W-66

Thermal Properties	Metric	English	Comments
Heat of Fusion	<= 65.0 J/g	<= 28.0 BTU/lb	Density at 1.38 g/cc
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

Thermal Properties	@Temperature 280 °C Metric	@Temperature 536 °F English	Comments
	0.242 W/m-K	1.68 BTU-in/hr-ft ² -°F	solid
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	254 - 256 °C	489 - 493 °F	PEPL-10-W-19
Maximum Service Temperature, Air	<= 70.0 °C	<= 158 °F	
Glass Transition Temp, Tg	79.0 °C	174 °F	PEPL-10-W-19
Flash Point	480 °C	896 °F	

Electrical Properties	Metric	English	Comments
Electrical Resistivity	1.00e+18 ohm-cm	1.00e+18 ohm-cm	
Dielectric Constant	3.3	3.3	

Processing Properties	Metric	English	Comments
Moisture Content	<= 0.20 %	<= 0.20 %	when packed; PEPL-10-W-13

Descriptive Properties	Value	Comments
Anti-Blocking Agent (%)	0.2	PEPL-10-W-72
Chips per Gram	31-35	PEPL-10-W-13
COOH end groups (mval/kg)	<30	PEPL-10-W-16
Fines (ppm)	<100	PEPL-10-W-65

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