

Pearl Engineering PEPLPET B-103C PET Bottle Grade

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

Material Notes:

A co-polymer used for mineral water bottles

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pearl-Engineering-PEPLPET-B-103C-PET-Bottle-Grade.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.39 - 1.41 g/cc	1.39 - 1.41 g/cc	PEPL-10-W-21
Bulk Density	0.800 - 0.900 g/cc	0.0289 - 0.0325 lb/in ³	PEPL-10-W-67
Bead Size	2.20 mm	0.0866 in	chip size, length; PEPL-10-W-71
	2.60 mm	0.102 in	chip size, D2; PEPL-10-W-71
	3.10 mm	0.122 in	chip size, D1; PEPL-10-W-71
Viscosity Measurement	0.74 - 0.78	0.74 - 0.78	intrinsic, [dl/gm]; PEPL-10-W-15
Molecular Weight	21500 g/mol	21500 g/mol	Number average M
	43000 g/mol	43000 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	
	0.213 W/m-K	1.48 BTU-in/hr-ft ² -°F	liquid
Thermal Conductivity			

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	248 - 250 °C	478 - 482 °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	

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

Descriptive Properties	Value	Comments
Acetaldehydes (ppm)	<1	PEPL-10-W-20
Chips per Gram	60-64	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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