

Pearl Engineering PEPLPET B-109JS PET Sheet Grade

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

Material Notes:

Used mainly for 5 to 20 liter mineral water containers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Pearl-Engineering-PEPLPET-B-109JS-PET-Sheet-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	0.850 - 0.950 g/cc	0.0307 - 0.0343 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	0.86 - 0.90	0.86 - 0.90	intrinsic, [dl/gm]; PEPL-10-W-15
Molecular Weight	29600 g/mol	29600 g/mol	Number average M
	59200 g/mol	59200 g/mol	Weight average M

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
	@Temperature 280 °C	@Temperature 536 °F	

Thermal Properties	0.242 W/m-K Metric	1.68 BTU-in/hr-ft²-°F English	Comments
	@Temperature 20.0 °C	@Temperature 68.0 °F	
Melting Point	245 - 247 °C	473 - 477 °F	PEPL-10-W-19
Maximum Service Temperature, Air	<= 70.0 °C	<= 158 °F	
Glass Transition Temp, Tg	78.0 - 80.0 °C	172 - 176 °F	PEPL-10-W-19
Flash Point	480 °C	896 °F	

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	61-65	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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