

Eastman Heatwave CF746 Polymer (discontinued **)

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

Material Notes:

Heatwave is a clear, reheat enhanced, PET polyester designed for heatset containers containing a UV light protection package chemically bound to the backbone of the polymer. Pellets are 2.5 mm (0.1 inch) cubical shaped. This non-extractable UV inhibitor absorbs damaging wavelengths of light, protecting the contents of the package. Heatwave has unique features that enable blow molding exceptionally thermally stable containers for the hotfill industry. Developed for food-contact containers, Heatwave polymer meets applicable FDA regulations for hot-fill containers. Applications/Uses Bottles Food Packaging Hot-fill containers

Order this product through the following link:

http://www.lookpolymers.com/polymer_Eastman-Heatwave-CF746-Polymer-nbspdiscontinued-.php

Physical Properties	Metric	English	Comments
Density	1.40 g/cc	0.0506 lb/in ³	Crystalline Density; ASTM D1505
Melt Density	1.20 g/cc @Temperature 285 °C	0.0434 lb/in ³ @Temperature 545 °F	ASTM D1238
Viscosity Measurement	0.78 - 0.82	0.78 - 0.82	Intrinsic; VGAS-A-AN-G-V-1

Thermal Properties	Metric	English	Comments
Heat of Fusion	67.0 J/g	28.8 BTU/lb	ASTM E793
Specific Heat Capacity	1.10 J/g-°C	0.263 BTU/lb-°F	DSC
	1.40 J/g-°C @Temperature 80.0 °C	0.335 BTU/lb-°F @Temperature 176 °F	DSC
	1.50 J/g-°C @Temperature 100 °C	0.359 BTU/lb-°F @Temperature 212 °F	DSC
	1.80 J/g-°C @Temperature 200 °C	0.430 BTU/lb-°F @Temperature 392 °F	DSC
	2.00 J/g-°C @Temperature 280 °C	0.478 BTU/lb-°F @Temperature 536 °F	DSC
Melting Point	246 °C	475 °F	Crystalline Peak Melting Point; ASTM D3418

Optical Properties	Metric	English	Comments
UV Transmittance	<= 10 % @Thickness 0.305 mm, Wavelength 370 nm	<= 10 % @Thickness 0.0120 in, Wavelength 370 nm	oriented film; VCSC-A-AN-G-UV-5

Optical Properties	Metric	English	Comments
Descriptive Properties	Value		Comments
Acetaldehyde	<3ppm		VKCA-A-AS-G-GC-001
Color, CIE a*	-1.9 ± 1.5		VGAS-A-AN-G-RS-001
Color, CIE b*	-1.1 ± 1.5		VGAS-A-AN-G-RS-001
Color, CIE L*	>72.5		VGAS-A-AN-G-RS-001
Fines, wt%, max	0.5		VGAS-A-AN-G-GA-1

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