

POLISAN HELLAS PRODUCT SPECIFICATION - PoliPET™ 84F

PoliPET™ 84F is a high molecular weight PET resin suitable for the production of bottles and other containers, of increased mechanical strength requirements especially with thick wall design. It is suitable for the manufacturing of food packaging articles under local regulation, EU directives and FDA requirements. It can be used by conventional single and two stage processing machines, having low crystallization rate and enhanced heat up properties. It presents excellent consistency and stability in injection molding, allowing for the optimum settings for achieving minimum degradation and acetaldehyde generation, at maximum productivity. This leads to the manufacturing of bottles with excellent dimensional stability, high clarity, high strength and toughness and with good barrier properties.

PoliPET™ 84F is designed with enhanced ability to absorb infrared radiation produced by lamps, which are used in most high speed blow molding machine. The enhanced energy absorption can result in improved temperature control which in turn can lead to improved material distribution and bottle properties. This improvement may also lead to increased machine output or reduced energy consumption.

Specifications

Property	Test Method	Unit	Value
Intrinsic Viscosity	ISO 1628 (dichloroacetic acid as solvent)	dl/g	0.84±0.02
Color L*	ASTM 6290		≥ 78
Color b*	ASTM 6290		≤ 1
Acetaldehyde	ASTM F2013	ppm	≤ 1

Typical Properties

Property	Unit	Value
Specific Density Crystalline	g/cm ³	> 1.39
Crystallinity	%	> 48
Moisture	%wt	≤ 0.2
Bulk Density	Kg/m ³	840
Weight of 20 chips	mg	320
Melting Point	°C	240-250
Typical Molding Temperature	°C	270-290
Drying Conditions - Temperature	°C	165-175
Drying Conditions - Time	h	5-6

All properties are measured under laboratory conditions by the analytical method shown. Different methods or conditions of analysis may give different values. Purchased material will be accompanied by a Certificate of Analysis, with representative average values of specified properties.

Food Contact Statement

PoliPET™ 84F complies with the composition of requirements of the Regulation (EC) No 10/2011 and the EU Directive on Packaging and Packaging Waste (94/62/EC) and its amendments.

Packaging

Bigbag: 1100 kg. net
Bulk

Storage Conditions

Avoid direct sun light
Keep in cool and dry place