

RAMAPET® R180

Polyethylene Terephthalate

Indorama Ventures PCL

Message:

RAMAPET R180 is a general purpose polymer with "clear reheat" for the European market. Typical applications include carbonated soft drinks (CSD), carbonated and still water, household products, pharmaceutical, and general purpose containers. The product is also suitable for film & sheet applications.

RAMAPET R180 contains a moderate level of a "clear" reheat additive which does not compromise the bottle appearance. The formulation gives a better reheat consistency than PET without reheat, allowing the blowing of more complicated shapes and an efficient blowing of the latest, light-weighted preform/bottle designs. The use of reheat additive provides significant energy saving up to 30% when reheating preforms.

General Information	
Features	Food Contact Acceptable
	General Purpose
	Opticals
Uses	Bottles
	Containers
	Film
	Food Packaging
	General Purpose
	Household Goods
	Medical/Healthcare Applications
	Pharmaceuticals
	Sheet
Agency Ratings	EC 1935/2004
	EU 10/2011
	EU 2023/2006
	FDA 21 CFR 174.5
	FDA 21 CFR 177.1630

Physical	Nominal Value	Unit	Test Method
Density	1.39 to 1.40	g/cm ³	ASTM D1505
Apparent Density			ASTM D1895
Poured	0.83	g/cm ³	
Vibrated	0.88	g/cm ³	
Acetaldehyde	< 1.0	ppm	
Color a	-3.80 to -0.800		
Color b	-3.50 to 1.00		
Color L	> 76.0		
Crystallinity	45 to 55	%	

Intrinsic Viscosity	0.78 to 0.82	dl/g	
Moisture Content	< 0.30	wt%	
Heat of Fusion	56.0	kJ/kg	ASTM E793
Fines	< 0.1	wt%	
Pellet Shape	Cubical		
Pellet Size	2.50	mm	
Pellet Weight	55.0 to 65.0	pcs/g	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	76.0 to 80.0	°C	ASTM D1238
Peak Melting Temperature	240 to 250	°C	ASTM D3418
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density (285°C)	1.20	g/cm ³	ASTM D1238
Injection	Nominal Value	Unit	
Drying Temperature	150 to 170	°C	
Drying Time	6.0	hr	

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