

RAMAPET® P184

Polyethylene Terephthalate

Indorama Ventures PCL

Message:

RAMAPET P184 is a slow crystallizing and non-reheat PET resin for thick walled applications that require optimal transparency, like refillable bottles, cosmetic bottles and jars and preforms for big containers like 5 Gallon. RAMAPET P184 has an IV of 0.84, has good optical properties and the mechanical properties are representative for a PET resin with IV of 0.84. RAMAPET thermoplastic polyesters are condensation polymers produced by a continuous melt-phase polymerization process followed by a solid-state polymerization process.

General Information			
Features	Food Contact Acceptable		
Uses	Bottles		
	Containers		
	Thermoformed Containers		
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	-3.50 to -0.500		
Color b	-3.00 to 1.50		
Color L	> 78.0		
Crystallinity	45 to 55	%	
Intrinsic Viscosity	0.82 to 0.86	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	75.0 to 79.0	°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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