

# RAMAPET® N1

Polyethylene Terephthalate

Indorama Ventures PCL

## Message:

RAMAPET N1 is a general purpose food grade PET copolymer resin that is suitable for a wide variety of containers. The resin offers good strength characteristics like dimensional stability and mechanical properties. Suitable for carbonated water, alcoholic beverages, pharmaceuticals, oils, agrochemicals, wide mouth containers and for APET sheet/film extrusion application. It is also suitable for heat set blow molding that are used for warm fill applications.

General Information			
Features	Food Contact Acceptable		
	General Purpose		
	Good Dimensional Stability		
	Good Strength		
Uses	Agricultural Applications		
	Containers		
	Film		
	Food Packaging		
	General Purpose		
	Pharmaceuticals		
Agency Ratings	EC 1935/2004		
	EU 10/2011		
	EU 2023/2006		
	EU 90/128/EEC		
	FDA 21 CFR 174.5		
	FDA 21 CFR 177.1630		
Processing Method	Injection Blow Molding		
Physical	Nominal Value	Unit	Test Method
Density	1.39 to 1.40	g/cm <sup>3</sup>	ASTM D1505
Apparent Density			ASTM D1895
Poured	0.83	g/cm <sup>3</sup>	
Vibrated	0.88	g/cm <sup>3</sup>	
Acetaldehyde <sup>1</sup>	< 1.0	ppm	
Color a <sup>2</sup>	-2.50 to -0.500		
Color b <sup>3</sup>	-3.00 to 0.00		
Color L <sup>4</sup>	> 82.0		
Crystallinity <sup>5</sup>	> 50	%	
Intrinsic Viscosity <sup>6</sup>	0.78 to 0.82	dl/g	

Moisture Content - When Packed <sup>7</sup>	< 0.20	wt%	
Heat of Fusion	56.0	kJ/kg	ASTM E793
Chips/Gram <sup>8</sup>	55.0 to 65.0	pieces	
Fines	< 0.1	wt%	
Pellet Shape	Cylindrical		
Pellet Size	2.50	mm	
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	76.0 to 80.0	°C	ASTM D3418
Melting Temperature	245 to 249	°C	DSC
Peak Crystallization Temperature (DSC)	240 to 250	°C	ASTM D3418
Fill Analysis	Nominal Value	Unit	Test Method
Melt Density (285°C)	1.20	g/cm <sup>3</sup>	ASTM D1238
Injection	Nominal Value	Unit	
Drying Temperature	150 to 170	°C	
Drying Time	6.0	hr	
NOTE			
1.	Gas Chromatograph		
2.	CIE Lab		
3.	CIE Lab		
4.	CIE Lab		
5.	Density Gradient Column		
6.	Ubbelohde Viscometer		
7.	Gravimetric Method		
8.	Weighment Method		

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#### Recommended distributors for this material

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