

RAMAPET® N1S

Polyethylene Terephthalate

Indorama Ventures PCL

Message:

RAMAPET N1S is a General purpose food grade PET copolymer resin that is suitable for wide variety of containers including CSD container market. The resin offers good strength characteristics and good barrier properties on gas permeability. Suitable for Water, Alcoholic beverages, Pharmaceuticals, Oils, Agrochemicals, CSD containers and for APET sheet application. It is also suitable for heat set blow molding that are used for warm fill applications.

General Information	
Features	Copolymer
	Food Contact Acceptable
	General Purpose
	Good Strength
Uses	Containers
	Food Packaging
	General Purpose
	Pharmaceuticals
	Sheet
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

Physical	Nominal Value	Unit	Test Method
Density	1.39 to 1.40	g/cm ³	ASTM D1505
Acetaldehyde ¹	< 1.0	ppm	
Color a ²	-2.50 to 0.00		
Color b ³	-3.00 to 0.00		
Color L ⁴	> 82.0		
Crystallinity ⁵	> 50	%	
Intrinsic Viscosity ⁶	0.80 to 0.84	dl/g	
Moisture Content - When Packed ⁷	< 0.20	wt%	
Heat of Fusion	56.0	kJ/kg	ASTM E793
Chips/Gram ⁸	55.0 to 65.0	pieces	
Fines	< 0.1	wt%	
Pellet Shape	Spherical		
Thermal	Nominal Value	Unit	Test Method

Glass Transition Temperature	76.0 to 80.0	°C	ASTM D1238
Melting Temperature			
--	245 to 249	°C	DSC
--	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	
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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