

Selar® PA 3426

Polyamide 6I/6T Copolymer
DuPont Packaging & Industrial Polymers

Message:

Selar® PA 3426 is an amorphous nylon (polyamide) resin which exhibits superior transparency, good barrier properties to gases, water, solvents and essential oils and high temperature structural properties which make it suitable for consideration in a number of applications.

Features:

Selar® PA 3426 barrier resin can be utilized in both flexible and rigid packaging structures and is characterized by very good gas O₂, CO₂ and moisture barrier. Furthermore, Selar® PA is unique in that its gas barrier improves with increasing relative humidity. It has excellent physical properties, high temperature resistance and excellent optical properties desirable in a structural resin. Like other nylons, Selar® PA barrier resin is an excellent barrier for many types of solvent systems. In general it has good resistance to aliphatic, aromatic hydrocarbons, dilute alkalis, higher molecular weight alcohols, and low concentrations of lower molecular weight alcohols. It is not recommended for acids or concentrated lower molecular weight alcohols. End use testing is recommended for each application. With its high degree of stiffness, very good gas and moisture barrier, solvent resistance and excellent gloss and clarity, Selar® PA used in monolayer provides a "glass like" container for rigid packaging.

Applications:

High melt viscosity for extrusion processes such as EBM.

Improved performance in shrink applications when blended with nylon 6.

Monolayer - blow molded tubes, pharmaceutical vials or bottles, typically less than 4 ounces.

Nylon 6 modification for higher heat resistance, better oxygen barrier, broader thermoforming window.

General Information			
Features	Heat resistance, high		
	Definition, high		
	Barrier resin		
Uses	Packaging		
	Films		
	Pipe fittings		
	Mixing		
	Bottle		
	Small bottle		
Agency Ratings	FDA 21 CFR 177.1500(a)(12)		
	FDA 21 CFR 177.1500(b)(12)		
Forms	Particle		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.19	g/cm ³	ASTM D792, ISO 1183
Intrinsic Viscosity	0.82		ASTM D5225
Moisture Content ¹		%	ISO 15512
Thermal	Nominal Value	Unit	Test Method
Glass Transition Temperature	125	°C	DSC
Injection	Nominal Value	Unit	
Processing (Melt) Temp	240 - 250	°C	
Injection instructions			

Maximum Processing Temperature: 310°C (590°F)

NOTE

1. at time of packaging

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