

DuPont™ Selar® PA 3426R

Selar® resins Product Data Sheet

Description

Product Description Selar® PA 3426R 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.

It is available in the form of small, free flowing pellets in 25 kg (55 lb.) foil-lined bags or 750 kg. (1653 lb.) foil lined boxes.

Restrictions

Material Status Commercial: Active

Typical Characteristics

Composition 100% By Weight 6I/6T polyamide

Features Selar® PA 3426R 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.

Characteristics / Benefits "Inherent Viscosity" of 0.82 via ASTM D4066
 "Moisture content" at time of packaging: --- max 0.10 % via ISO 15512

Applications High melt viscosity for extrusion processes such as EBM.
 Improved performance in shrink applications when blended with nylon 6.

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

Nylon 6 modification for better oxygen barrier (at higher humidities), broader thermoforming window, and easier extrusion processing.

Typical Properties

Physical	Nominal Values	Test Method(s)
*Density ()	1.19 g/cm ³	ASTM D792 ISO 1183
*Solution Viscosity ()	*** See IV information above ***	ASTM D2857
Thermal	Nominal Values	Test Method(s)
*Glass Transition Temperature (DSC)	125 °C (257 °F)	

Processing Information

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

General Processing Information DuPont™ Selar® PA is an amorphous nylon resin which can be processed on conventional extrusion, coextrusion, injection Molding or blow molding equipment that is designed to process nylon or polyolefin resins.

Suggested "start-up" melt temperatures should be in the minimum range of 240°C to 250°C (464°F to 482°F) unless prior experience has shown that lower temperatures are acceptable. If lower melt temperatures are desired, machine temperatures should be reduced after "start-up" while carefully

monitoring drive power and head pressure. For processing methods that require melt temperatures above 250°C (482°F), "start-up" can be at or near the desired melt temperature.

FDA Status Information

SELAR® PA 3426R Barrier Resin complies with Food and Drug Administration Regulation 21 CFR 177.1500(a)(12) and (b)(12) - - Nylon resins, subject to the limitations and requirements therein. This Regulation describes nylon resins that may be used in contact with food, except alcoholic beverages containing more than 8 percent alcohol.

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Regulatory Information

For information on regulatory compliance outside of the U.S., consult your local DuPont representative.

Safety & Handling

For information on appropriate Handling & Storage of this polymeric resin, please refer to the material Safety Data Sheet.

A Product Safety Bulletin, material Safety Data Sheet, and/or more detailed information on extrusion processing and/or compounding of this polymeric resin for specific applications are available from your DuPont Performance Materials representative.

Regional Centres

DuPont operates in more than 70 countries.

For help finding a local representative, please contact one of the following regional customer contact centers:

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