

Selar® PA 2072

Polyamide 6

DuPont Packaging & Industrial Polymers

Message:

Selar® PA 2072 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

Composition

100% By Weight 6I/6T polyamide

Features

Selar® PA 2072 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.

Characteristics / Benefits

"Intrinsic Viscosity" of 0.72 via ASTM D5225

"Moisture content" at time of packaging: --- max 0.05 % 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, pharmaceutical vials or bottles, typically less than 4 ounces.

Modification of EVOH for broader thermoforming window.

| General Information | | | |
|---------------------|-------------------------------|-------------------|---------------------|
| Features | Gasoline Resistance | | |
| | Good Adhesion | | |
| | Good Stiffness | | |
| | High Clarity | | |
| | High Gloss | | |
| | Low (to None) Cadmium Content | | |
| | Low Molecular Weight | | |
| | Moisture Resistant | | |
| Uses | Blending | | |
| | Packaging | | |
| | Rigid Packaging | | |
| Agency Ratings | FDA 21 CFR 177.1500(a)(12) | | |
| | FDA 21 CFR 177.1500(b)(12) | | |
| Forms | Pellets | | |
| Physical | Nominal Value | Unit | Test Method |
| Specific Gravity | 1.19 | g/cm ³ | ASTM D792, ISO 1183 |
| Intrinsic Viscosity | 0.72 | | ASTM D5225 |

| Moisture Content ¹ | < 0.050 | | ISO 15512 |
|-------------------------------|----------------------|------|----------------------|
| Thermal | Nominal Value | Unit | Test Method |
| Peak Melting Temperature | 125 | °C | ASTM D3417, ISO 3146 |
| Injection | Nominal Value | Unit | |
| Processing (Melt) Temp | 240 to 250 | °C | |
| NOTE | | | |
| 1. | at time of packaging | | |

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



WECHAT